



Panasonic

# Panasonic

General Catalogue 2016-2018



## SlimArt NEW

New Slim Designs to Harmonize with Any Living Space

Catalogue Download Page : <http://www.panasonic.com/ph/business/ecosolutions.html>

Please contact...

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Eco Solutions Department**

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Manufactured by

**Panasonic Manufacturing Ayuthaya Co., Ltd.  
Panasonic Eco Solutions Steel (Thailand) Co., Ltd.  
Panasonic Corporation Eco Solutions Company  
Anchor Electricals Pvt. Ltd.  
PT. Panasonic Gobel Eco Solutions Manufacturing Indonesia**

# Panasonic®

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Philippines

## General Catalog Electrical Construction Materials 2016 - 2018

2016.10

# To the next stage.

Panasonic has been present in the Philippines market over many years. During all this time, our customers have come to appreciate Panasonic and our extensive range of products, including one of our key product groups, Wiring Devices, an integral component of Panasonic Electrical Construction Materials.

Playing a key role in Panasonic company history since 1918, Panasonic Wiring Devices have established a reputation for safety, durability and comfort around the world. As Panasonic continues to develop new product technologies along with highly advanced manufacturing abilities, our concepts regarding safety and comfort continue to evolve.

Panasonic's uncompromising commitment makes it possible to offer our Philippines customers a higher level of satisfaction with any of our diverse product categories.



*Panasonic Original Product  
1918  
Attachment plug*

WIRING DEVICES	P16		SLIM ART	AUTOMATIC TIME SWITCH	P77	
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# Company Profile

Since the Panasonic Corporation was founded in 1918, it has based corporate activities on a Basic Management Objective. Through its business activities, Panasonic strives to help society progress and develop so as to improve the well-being of people throughout the world. By keeping focused on people, we intend to enrich their lifestyles as we move forward together with our customers.

Panasonic Eco Solutions Company handles diverse businesses. The Energy Systems Business supplies everything from wiring devices and distribution switchboards to photovoltaic modules, storage battery systems and energy management devices. The Lighting Business innovates illumination in an energy-efficient manner with LED lighting bulbs, fixtures and other devices. The Housing Systems Business's comprehensive range of residential equipment and building materials create comfortable living environments. The Environmental Systems Business helps to reduce environmental impact by maintaining good air quality and by purifying contaminated water and soil.

We are helping to create an environment in which people around the world can live in comfort while minimizing environmental harm. Harmoniously combining ecology and comfort is our vision. We seek to achieve this by creating solutions in residential and non-residential (buildings and public facilities) fields, leveraging Panasonic Group's extensive product lines. As we address issues our worldwide customers face with Panasonic solutions, we contribute to realizing a sustainable society.

## Panasonic — dedicated to eco-conscious manufacturing.

Manufacturing eco-conscious products that do not harm humans and the environment have always been a priority for Panasonic. Conforming to the RoHS directive originating from the EU, Panasonic restricts the usage of hazardous substances that might adversely affect the environment and humans such as lead, cadmium, chromium, mercury, etc. Panasonic contributes to creating a greener environment with lead-free welding, cadmium-free contacts and hexavalent chromium-free plating.



Panasonic Eco Solutions Company (Osaka, Japan)

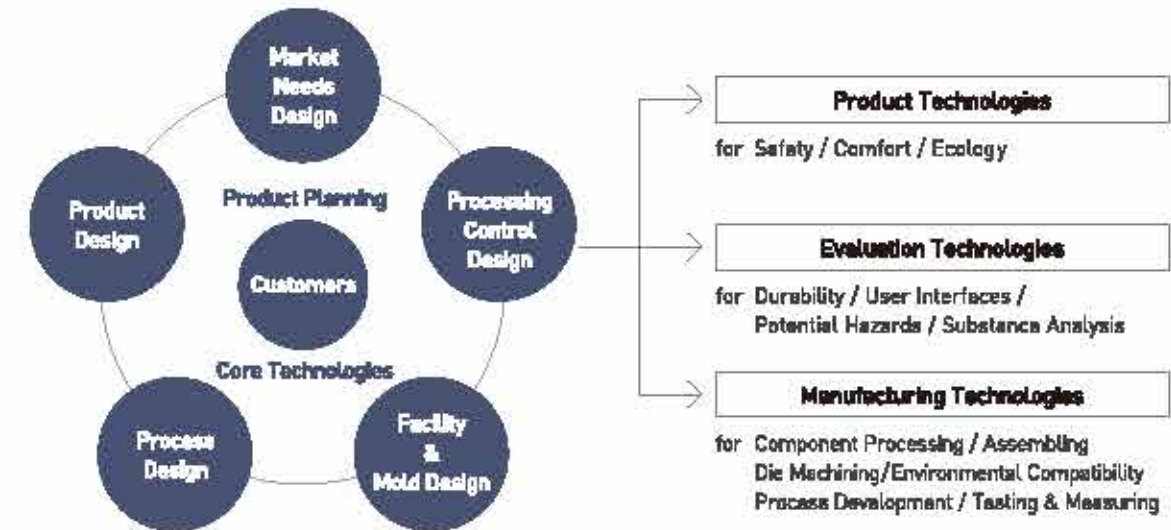


Panasonic Tokyo Shinjuku Building (Tokyo, Japan)

# Products Concept

## Panasonic's "Five-Elements" Design Concept

The integrated system that our product development process is based on makes it possible to produce consistently high-quality products. It begins with assessing market needs accurately, goes on to develop advanced basic technologies and extends to product planning, design and production, all the way to sales and after-sales activities.



## Panasonic — firmly committed to assuring Security, Safety and Comfort for customers using our products.

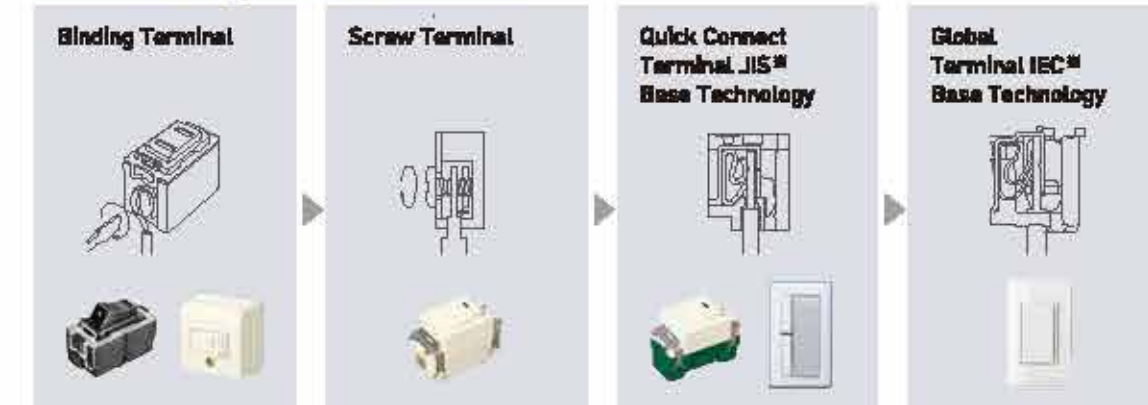
Introduction of the Panasonic establishment product and the wiring devices classified by terminal structure.

### Panasonic's "Establishment Product" and the Evolution of Wiring Devices

1918 Attachment Plug



### Panasonic's Wiring Devices Series Evolution



JIS = Japanese Industrial Standards. IEC = International Electrotechnical Commission

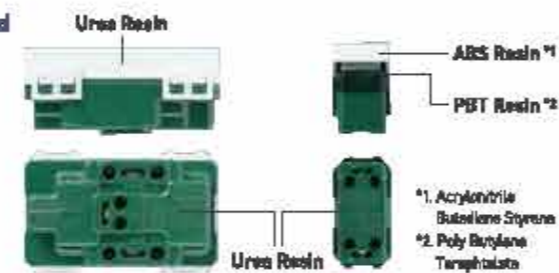


## SECURITY AND COMFORT

### 1 Flame-retardant Material Urea Resin

Utilizing urea resin improves flame resistance and outstanding anti-tracking prevents electric shocks.

#### Completely Insulated Construction



#### Protection Against Electric shock

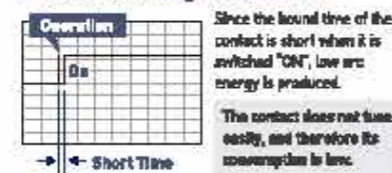
Reference Material Characteristics (Reference)

	Urea	PBT	Polycarbonate
Tracking Performance	Excellent	Good	Poor
Heat Deformation	Good	Good	Fair
Self-Extinguishment	Good	Good	Good

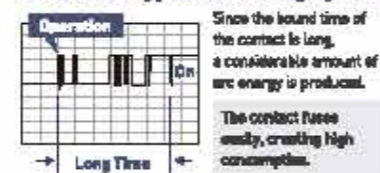
### 2 Durable & Smooth Operations Direct Driving Mechanism

Panasonic's proprietary method helps stabilizing the pressure applied to the contacts to ensure low heat and minimize the arc energy. This process reduces the risk of contact fuse and provides longer lasting resistance.

#### Direct Driving Mechanism



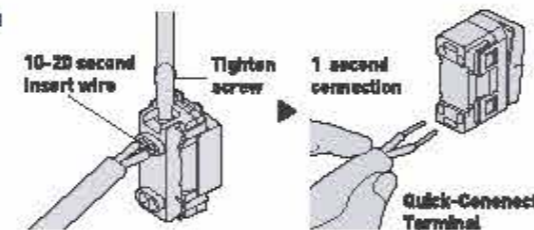
#### Seesaw Type of Switching System



### 3 Quick & Secure Connection Quick-Connect Terminal

These terminals improve site construction quality since fewer tightening screws are required, simplifying connections.

#### Reduces the execution time considerably



#### Tensile strength after connection

IEC60669-1 IEC61884-1 Standard Value	FULL-COLOR WIDE SERIES / SlimArt	
IEC Standard	Wire	Strength
30N min.	1.5 mm <sup>2</sup> 4.0 mm <sup>2</sup>	30N min. or more

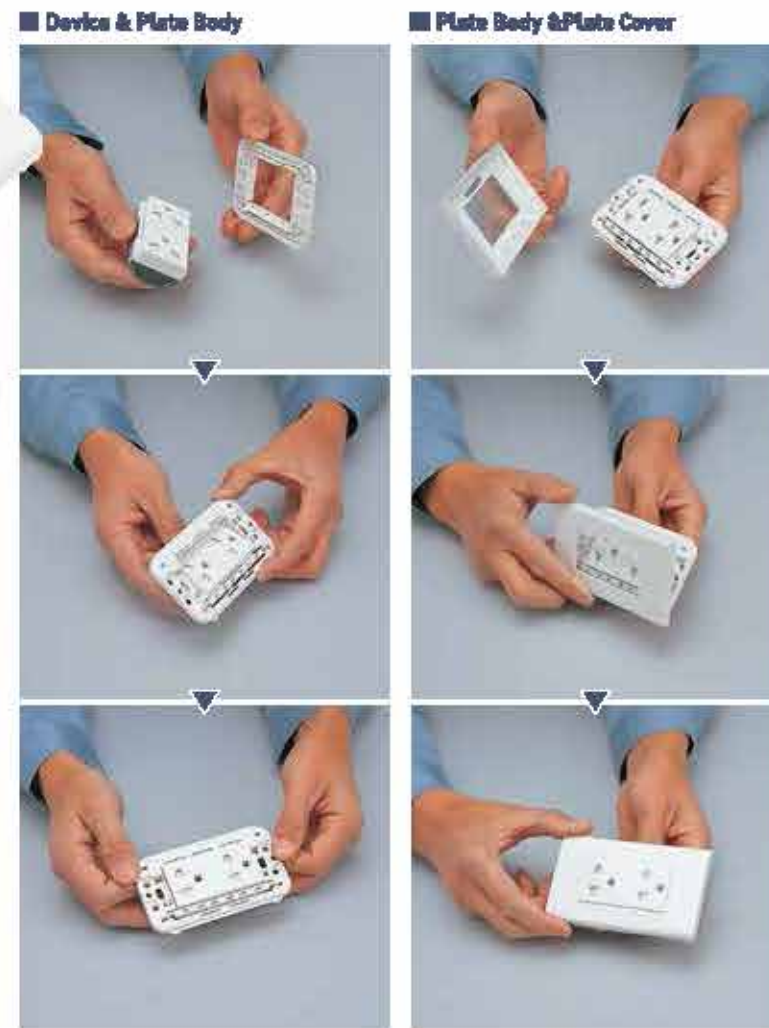


## EASY TO INSTALL

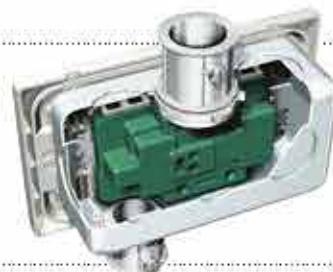
Panasonic-designing one-touch action products that are easy to install.

The All One-Touch Action design concept that attaches devices to body plates and plate bodies to the plate covers makes the installation process easier than ever, saving both time and labor.

### 1-TOUCH Construction



Highly efficient, because of improvements in the utility box. Sufficient space has been provided to house the connectors, and this has resulted in a higher efficiency than ever before.



## VARIOUS TERMINALS AVAILABLE

We offer a wide range of terminals to suit the electrical cabling requirements of every country.

Panasonic has made available various terminals to suit the cabling environment anywhere in the world. With a structure which can be handled with more safety than ever before. Connections can be smoothly made, which leads to labor saving.

### Types of Electrical Cables and Terminals

Terminal	ICON	APPLICABLE WIRE
Quick Connect Terminal	 Screw-less Terminal Suitable for stranded wire	 Solid OK
	 Quick & Safety Solid Wire only 1.5-2.5mm <sup>2</sup>	
Block Terminal	 Solid Wire: 1.5-2.5mm <sup>2</sup> Stranded Wire: 1.5-2.5mm <sup>2</sup>	 Solid Stranded OK
	 Solid Wire: 1.5-4.0mm <sup>2</sup> Stranded Wire: 1.5-4.0mm <sup>2</sup>	
Pillar Terminal I	★ 1.5-4.0mm <sup>2</sup> Solid, Stranded and Flexible wire	 Flexible OK



## WORLDWIDE STANDARDS

### Safety design conforming to IEC standards

Switches conform to the IEC60669-1 standard(16A 250V~). Socket Outlets conform to the IEC60884-1 standard. All devices guarantee protection against electric shock and are designed for endurance, service longevity and safety.

### Switches

- Designed for long service life (compliant with IEC standard) with 40,000 testing operations at 16A 250V~ full rating.
- Heat-resistant, highly conductive material used for the terminal plate reduces temperature increases in the terminal section.

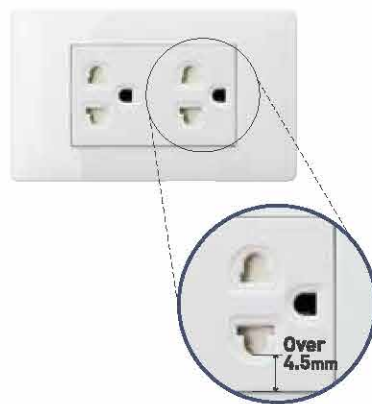


#### ■ Terminal Section Temperature rise

IEC60669-1 Standard value		Conditions
Initial	45K max.	20A current
Use as 40,000 testing operations		16A current

### Socket Outlets

- Wide socket outlet secures insulation distance between contacts and external metal parts improving safety. (Compliant with IEC standard which requires insulation distance over 4.5mm)
- Long-life design, capable of 10,000 strokes at 16A 250V ~ full rating.
- Heat-resistant, highly conductive material is used for the blade sockets and terminal point to reduce temperature increase.



#### ■ Terminal Section Temperature Rise

IEC60884-1 Standard value		Conditions
Initial	45K max.	20A current
After 10,000 Strokes		16A current

#### ■ Withdrawal Forces

IEC60884-1 Standard value		
After 10,000 Strokes	3 blades	54N max.
	2 blades	50N max.
	Single blades	2N min.

#### ■ Insulation Resistance

IEC60884-1 Standard value	
Initial	5M Ω min.
After 10,000 Strokes	

#### ■ Electric Strength

IEC60884-1 Standard value	
Initial	2,000V 1 min.
After 10,000 Strokes	1,500V 1 min.

### Based on Internationally Accepted Standards



Manufactured based on the industrial norms for environmental conservation and quality assurance prescribed by ISO. We undertake the manufacture of products using processes with high quality and high safety which have cleared the IEC/TIS standards.

#### ■ Examination and registration card.



### Laboratory Accreditation of Product Testing



Panasonic Manufacturing Ayuthaya Co.,Ltd. got TIS approval 17025-2458 (ISO/IEC 17025) on Y2013 that is certified laboratory accreditation of product testing. The certificate included requirement items of quality management and academic. Testing result from this laboratory is a trustworthy in term of academic. Moreover, it comply with requirement from Thai industrial standard institute.

#### ■ Thai Industrial Standard Institution



### Panasonic now comes with Philippine Standard (PS) mark

In compliance with Philippine National Standard (PNS) issued by the Department of Trade and Industry's Bureau of Product Standards (DTI-BPS)



#### ■ IEC / TIS Standard Test Equipment

In our Ayuthaya factory in Thailand, we have equipment to conduct stringent tests for the manufacture of products which meets international safety standards. We promise reliable quality from a safe manufacturing environment.



1. Glow Wire Test Apparatus
2. Insert & Withdraw Test Apparatus
3. Impact Test Apparatus
4. On/Off Switch Apparatus
5. Temperature & Humidity Chamber
6. Temperature Chamber
7. Terminal Test Apparatus

# Panasonic's products will continue to work in diverse settings all around the world.

Home and lifestyle environments, as well as business environments which evolve every day.

The Panasonic group has made available to you safe and secure products which you can use in various places, whether it is your home, or office, or in various institutions or public areas.

Our rich and varied product range offers true value to our customers. We shall continue to offer you the best in smart living.

Home	Condominium	Office	Factory	Shopping Center
<ul style="list-style-type: none"> <li> SLIM ART</li> <li> FLATIMA SERIES</li> <li> COSMO ART SERIES</li> <li> VENTILATING FAN</li> <li> PHOTOVOLTAIC MODULE HIT.</li> </ul>	<ul style="list-style-type: none"> <li> SLIM ART</li> <li> FULL-COLOR WIDE SERIES REFINA</li> <li> V-HOTEL SERIES</li> <li> EL GUARD (FULL-COLOR WIDE SERIES)</li> <li> VENTILATING FAN</li> </ul>	<ul style="list-style-type: none"> <li> MELODY WEEK</li> <li> SLIM ART</li> <li> FULL-COLOR WIDE SERIES</li> <li> PASSIVE INFRARED SENSOR</li> <li> EXTENSION CORD</li> <li> FLOOR OUTLET SERIES</li> <li> FULL-2WAY REMOTE LIGHTING CONTROL SYSTEM</li> <li> FIRE ALARM SYSTEM</li> </ul>	<ul style="list-style-type: none"> <li> FULL-COLOR WIDE SERIES</li> <li> TWISTLOCK</li> <li> PASSIVE INFRARED SENSOR</li> <li> FACTORY LINE SYSTEMS</li> <li> AUTOMATIC TIME SWITCH</li> <li> FLOOR OUTLET SERIES</li> <li> PHOTOVOLTAIC MODULE HIT.</li> <li> VENTILATING FAN</li> <li> FIRE ALARM SYSTEM</li> </ul>	<ul style="list-style-type: none"> <li> FULL-COLOR WIDE SERIES</li> <li> TWISTLOCK</li> <li> AUTOMATIC TIME SWITCH</li> <li> FLOOR OUTLET SERIES</li> <li> VENTILATING FAN</li> <li> AIR CURTAIN</li> </ul>

# Product Positioning

## ( Series of Wiring Devices )

Whether living room, office, public space or any other facility, Panasonic enhances its appearance. A wide range of switch and socket product series, each with its distinctive designs, color variations and operational ease are offered to ideally match installation requirements.

Luxury



**FLATIMA**  
SERIES



**NEW V-HOTEL**  
SERIES



**FULL-COLOR WIDE SERIES**  
**REFINA**



**NEW SLIM ART**

Decorative



**COSMOART**  
SERIES



**FULL-COLOR WIDE SERIES**

Simple



**FULL-COLOR SERIES**

Casual

**NEW SLIM ART**  
P. 16



**New slim designs to harmonize with any living space**

Slimmer and easier-to-use setting the standard for advanced wiring device designs

**FLATIMA**  
SERIES  
P. 22



**Flat panel with ultrathin design**

Perfect asymmetric design of 2mm thick high quality aluminum plate. FLATIMA SERIES represents the top Panasonic wiring devices series.

**COSMOART**  
SERIES  
P. 26



**Exceptional appearance and easy use**

This high quality series features a striking appearance with maximum ease-of-use, adding a beautiful touch to modern interiors.

**FULL-COLOR WIDE SERIES**  
**REFINA**  
P. 30



**Wide color range suits modern interiors**

The many colors available are perfect to match with wall colors and textures. From grainy-textured wood type finishes to sophisticated colors, this series adds a stylish touch anywhere, whether living, dining, study or bedroom.

**FULL-COLOR WIDE SERIES**  
P. 36



**The beauty of simplicity**

Elegant and aesthetically pleasing, this popular series is sure to complement any interior schema.

**NEW V-HOTEL**  
SERIES  
P. 44



**Perfect fit for modern interiors**

Pure white and linear design is ideal for spacious modern accommodation. Silver & Black combination amalgamates with the shades of stylish interiors.

**FULL-COLOR SERIES**  
P. 50



**The standard of excellence for any installation**

This versatile series is right for residential as well as office and commercial applications.



## New slim designs to harmonize with any living space

Slimmer and easier-to-use setting the standard for advanced wiring device designs



NEW

## SLIM ART



SlimArt



### DESIGNS IN HARMONY WITH LIVING SPACES

Simple and elegant design matches any room interior. Includes gentle lighted indicator for better visibility in the dark.



### ALWAYS PLEASANT TO THE TOUCH

Advanced mechanism allows smoother ON/OFF switching. Designed for easiest possible operation.



### ALWAYS RELIABLE AND BEAUTIFUL

Made of a material that resists color fading even when constantly bathed in room light or sunlight.



\*Yellowing of conventional products















**Quick Connect Terminal**  
Solid Wire : 1.5-2.5mm<sup>2</sup>



**Global Terminal**  
Solid Wire : 1.5-4mm<sup>2</sup>  
Standed Wire : 1.5-4mm<sup>2</sup>

Switches


<p><b>WSAG5511-5</b> Switch "B", Single Pole, 1-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5521-5</b> Switch "B", Single Pole, 2-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5531-5</b> Switch "B", Single Pole, 3-Device, Quick Connect Terminal 16AX 250V~</p> 
<p><b>WSAG5512-5</b> Switch "C", 3-way, 1-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5522-5</b> Switch "C", 3-way, 2-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5532-5</b> Switch "C", 3-way, 3-Device, Quick Connect Terminal 16AX 250V~</p> 
<p><b>WSAG5551-5</b> Illuminated Switch "B", Single Pole, 1-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5561-5</b> Illuminated Switch "B", Single Pole, 2-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5571-5</b> Illuminated Switch "B", Single Pole, 3-Device, Quick Connect Terminal 16AX 250V~</p> 
<p><b>WSAG5552-5</b> Illuminated Switch "C", 3-way, 1-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5562-5</b> Illuminated Switch "C", 3-way, 2-Device, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG5572-5</b> Illuminated Switch "C", 3-way, 3-Device, Quick Connect Terminal 16AX 250V~</p> 

Receptacles and Accessories


<p><b>WSAG5004-5</b> Switch "E", 4-way, Quick Connect Terminal 16AX 250V~</p> 	<p><b>WSAG1091-5</b> Universal Receptacle, Quick Connect Terminal 16A 250V~</p> 	<p><b>WSAG1461-5</b> 20A Tandem Grounding Receptacle 20A 250V~</p> 
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<p><b>WSAG1181-5</b> Grounding Universal Receptacle with Safety Shutter, Quick Connect Terminal 16A 250V~</p> 	<p><b>WSAG1191-5*</b> Grounding Universal Receptacle, Quick Connect Terminal 16A 250V~</p> 	<p><b>WSAG1582-5</b> Grounding Duplex Universal Receptacle with Safety Shutter, Quick Connect Terminal 16A 250V~ IP20</p> 
<p><b>WSAG1592-5</b> Grounding Duplex Universal Receptacle, Quick Connect Terminal 16A 250V~</p> 	<p><b>WEGP1741SW-5</b> EL Guard Grounding Receptacle (Snow White) 10A 220V~ 10A 220V-AC Applicable Wire: 2.0mm<sup>2</sup>- 3.5mm<sup>2</sup> Solid Wire Only</p> 	<p><b>WSAG2488</b> CAT5E Data Modular Jack</p> 
<p><b>WSAG24886</b> CAT6 Data Modular Jack</p> 	<p><b>WSAG2701</b> Television Terminal (Current Passing Type)</p> 	<p><b>WSAG2731</b> F Type Television Terminal (Current Passing Type)</p> 
<p><b>WSAG2164</b> Telephone Modular Jack (6P4C)</p> 	<p><b>WSAG5411-011</b> Entrance Bell, 1-Device 10A 250V~</p> 	<p><b>WSAG5431-011</b> Entrance Bell, 3-Device 10A 250V~</p> 
<p><b>WSAG3020</b> Blank Chip</p> 	<p><b>Dimmer Switch</b></p> <p><b>WSAG575151</b> Dimmer Switch (Incandescent Light Control) 500W 220V~ * Off Function Type</p> 	

 These products conform to Philippine Standards with PS mark.

 The product without PS mark is exempted model or with ICC sticker.

 These products conform to Philippine Standards with PS mark.

 The product without PS mark is exempted model or with ICC sticker.

\*Product is not suitable for aircon with tandem plug. This can result to loose contact between plug and socket.

Plates

Unit: mm

SLIM ART SERIES		
	1-Touch Plate, 1-Gang 1-Device	WSAG6801-1
	1-Touch Plate, 1-Gang 2-Device	WSAG6802-1
	1-Touch Plate, 1-Gang 3-Device	WSAG6803-1
	1-Touch Plate, 1-Gang Center 2-Device	WSAG68029-1
	1-Touch Plate, 1-Gang Cover	WSAG6891-1
	F-Plate (Plate for EL Guard, Snow White)	WSAG1813

Compare WIDE series with Slim Art series

Unit: mm

	Switch	Receptacle
<b>Slim Art</b>		
<b>WIDE series</b>		

# Slimmer and Easier-to-use Setting the Standard for Advanced Wiring Device Designs

A carefully crafted design with a smoothly curved touch.

## Design



**LED Indicator**  
Includes gentle lighted indicator for better visibility in the dark.



**Slim with Snow White Color**  
Simple and elegant design matches any room interior.

## Operation



**Soft-touch Operation**  
Advanced mechanism allows smoother ON/OFF switching.



**Wide Switch**  
Designed for easiest possible operation.

## Material



**Resists Color Fading**  
Material resists fading and discoloration.

\*Yellowing of conventional products



**Scratch-Resistant**  
Robust surface uses effective scratch-free material.

## Flat panel with ultrathin design

Exclusive switch series with ultrathin panel and refined appearance adding elegance to your interiors.



# FLATIMA<sup>SERIES</sup>

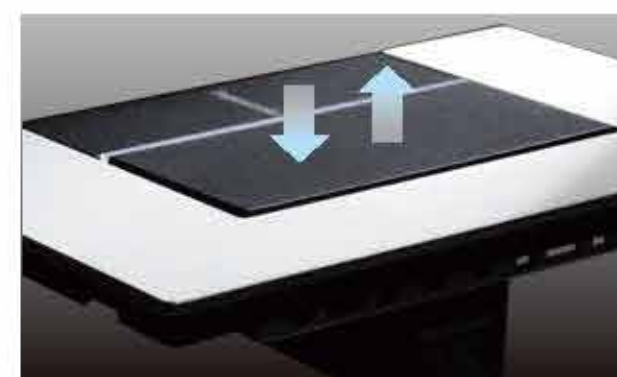


FLATIMA<sup>SERIES</sup>



### SOPHISTICATED SURFACE WITH A SUPER-SLIM DESIGN.

Ideal asymmetric design using 2mm-thick, high-quality aluminum plate.



### HEAT-RESISTANT, EASY-TO-USE LATEST SWITCH MECHANISM

On/Off with just a soft push of the switch. Built for trouble-free operation.

# FLATIMA SERIES A-TYPE



**Quick Connect Terminal II**  
Solid Wire : 1.5-2.5mm<sup>2</sup>  
Stranded Wire : 1.5-2.5mm<sup>2</sup>



**Global Terminal**  
Solid Wire : 1.5-4mm<sup>2</sup>  
Stranded Wire : 1.5-4mm<sup>2</sup>

## Switches

### WTEGP51552S-1-5

Illuminated Switch "C" 3Way  
1-Device with Plate  
16AX 250V~  
[Neon Lamp:220V~]



### WTEGP52562S-1-5

Illuminated Switch "C" 3Way  
2-Devices with Plate  
16AX 250V~  
[Neon Lamp:220V~]



### WTEGP53572S-1-5

Illuminated Switch "C" 3Way  
3-Devices with Plate  
16AX 250V~  
[Neon Lamp:220V~]



### WTEGP54562S-1-5

Illuminated Switch "C" 3Way  
4-Devices with Plate  
16AX 250V~  
[Neon Lamp:220V~]



### WTEGP55582S-1-5

Illuminated Switch "C" 3Way  
5-Devices with Plate  
16AX 250V~  
[Neon Lamp:220V~]



### WTEGP56572S-1-5

Illuminated Switch "C" 3Way  
6-Devices with Plate  
16AX 250V~  
[Neon Lamp:220V~]



## Receptacles and Accessories

### WEG15829B-5

Grounding Duplex Universal  
Receptacle with Safety Shutter  
16A 250V~



### WEG15929B-5

Grounding Duplex Universal  
Receptacle 16A 250V~



### WEG2164B-F

Telephone Modular Jack  
(6P 4C)



### WEG2488B-F

CAT5E Data Modular Jack



### WEG24886B-F

CAT6 Data Modular Jack



### WEG2701B-F

DIN type television terminal  
(Current Passing Type)



### WEG3020B-F

Blank Chip



## Dimmer Switches

### WEG57813B-1-F

Dimmer Switch  
(Incandescent and Low  
Voltage Halogen with  
Transformer 12V Light Control)  
300W 220V~



### WEG57816B-1-F

Dimmer Switch  
(Incandescent and Low  
Voltage Halogen with  
Transformer 12V Light Control)  
500W 220V~



## Plates for Receptacles and Accessories

### WTEG6503S-F

1-Gang 3-Device



### WTEG6506S-F

2-Gang 6-Device



## Plate for Dimmer (This plate can be used with Receptacles and Accessories)

### WTEG6503S-1-F

1-Gang 3-Device



These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

## Exceptional appearance and easy use

Sophisticated modern design and superb ease-of-use



## COSMOART SERIES



**COSMO ART**  
SERIES



### CREATES A MODERN, APPEALING LOOK WHEN INSTALLED.

European design sensibility meets Japanese craftsmanship for a finish that stands by itself.



### HEAT-RESISTANT, EASY-TO-USE LATEST SWITCH MECHANISM

On/Off with just a soft push of the switch. Built for trouble-free operation.

# COSMO ART SERIES A-TYPE

## Switches

<p><b>WTAG7152CH-5</b> Illuminated Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GRAY</p>	<p><b>WTAG7152CL-5</b> Illuminated Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR BLUE</p>	<p><b>WTAG7152CD-5</b> Illuminated Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GREEN</p>
<p><b>WTAG7252CH-5</b> Illuminated Duplex Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GRAY</p>	<p><b>WTAG7252CL-5</b> Illuminated Duplex Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR BLUE</p>	<p><b>WTAG7252CD-5</b> Illuminated Duplex Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GREEN</p>
<p><b>WTAG7352CH-5</b> Illuminated Triple Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GRAY</p>	<p><b>WTAG7352CL-5</b> Illuminated Triple Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR BLUE</p>	<p><b>WTAG7352CD-5</b> Illuminated Triple Switch "C" 3Way 16AX 250V-(Neon Lamp: 220V-)</p> <p><b>WTAG6101W</b> Plate 1-Gang 3-Device</p>  <p>CLEAR GREEN</p>

## Portable Card Switch

**WTC5631WK-8**  
Portable Card Switch  
(2-Channel) 2A 220V-



## Receptacles and Accessories

<p><b>WEG10919-5</b> Universal Receptacle 16A 250V-</p> 	<p><b>WEG1001-5</b> Receptacle 16A 250V-</p> 	<p><b>WEG1090-5</b> Round Pin Receptacle 16A 250V-</p> 	
<p><b>WEG1181K-5</b> Grounding Universal Receptacle with Safety Shutter 16A 250V-</p>  <p>IP20</p>	<p><b>WEG1191K-5*</b> Grounding Universal Receptacle 16A 250V-</p>  <p>IP20</p>	<p><b>WEG1151-5</b> Grounding Receptacle with Safety Shutter 16A 250V-</p>  <p>IP20</p>	<p><b>WEG1101-5</b> Grounding Receptacle 16A 250V-</p>  <p>IP20</p>

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

\*Product is not suitable for aircon with tandem plug. This can result to loose contact between plug and socket.

**Quick Connect Terminal**  
Solid Wire : 1.5-2.5mm<sup>2</sup>

**Quick Connect Terminal II**  
Solid Wire : 1.5-2.5mm<sup>2</sup>  
Standed Wire : 1.5-2.5mm<sup>2</sup>

**Global Terminal**  
Solid Wire : 1.5-4mm<sup>2</sup>  
Standed Wire : 1.5-4mm<sup>2</sup>

<p><b>WEG1461-5</b> <b>NEW</b> 20A Tandem Grounding Receptacle 20A 250V- For Air Conditioner</p>  <p>IP20</p>	<p><b>WEG15829-5</b> Grounding Duplex Universal Receptacle with Safety Shutter 16A 250V-</p>  <p>IP20</p>	<p><b>WEG15929-5</b> Grounding Duplex Universal Receptacle 16A 250V-</p> 	<p><b>WEG1302-5</b> Duplex Receptacle 16A 250V-</p> 
<p><b>WEG1552-5</b> Grounding Duplex Receptacle with Safety Shutter 16A 250V-</p>  <p>IP20</p>	<p><b>WEG1512-5</b> Grounding Duplex Receptacle 16A 250V-</p> 	<p><b>WEG24886</b> CAT6 Data Modular Jack</p> 	<p><b>WEG2488</b> CAT5E Data Modular Jack</p> 
<p><b>WEG2164/WEG2166</b> Telephone Modular Jack (6P 4C / 6P 6C)</p> 	<p><b>WEG2701</b> Television Terminal (Current passing type)</p> 	<p><b>WE2731-8</b> F Type Television Terminal (Current Passing Type)</p> 	<p><b>WTNG4101W</b> Audio Screw Terminals (Single)</p> 
<p><b>WTNG4102W</b> Audio Screw Terminals (Double)</p> 	<p><b>EGG331</b> Weather Proof Push Button for Door Chime 1A 220V-</p> 	<p><b>EBG888</b> Door Chime 220V-Two Tone 3.5W 50Hz Easy-to-Hear 82dB Chime</p> 	<p><b>WEG575151</b> Dimmer Switch (Incandescent Light Control) 500W 220V- * Off Function Type</p> 
<p><b>WEG575181</b> Dimmer Switch (Incandescent Light Control) 800W 220V- * Off Function Type</p> 	<p><b>WTAG6101W</b> 1-Gang 3-Device</p> 	<p><b>WTAG6102W</b> 2-Gang 6-Device</p> 	<p><b>WTAG6803W</b> 1-Gang 3-Device</p> 

## Plates for Switches

## Plates for Receptacles and Accessories

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

## Wide color range suits modern interiors

Subtle and stylish color coordination  
enhancing your living environments



FULL-COLOR WIDE SERIES

## REFINA



FULL-COLOR  
**WIDE**  
SERIES  
*Refina*



### WIDE COLOR PALETTE TO PERFECTLY MATCH LIFESTYLE INTERIORS

Luxurious appearance with  
wide color variations creating  
attractive living spaces.



### HEAT-RESISTANT, EASY-TO-USE LATEST SWITCH MECHANISM

Simple switch mechanism  
made trouble-free.



# FULL-COLOR WIDE SERIES REFINA A-TYPE

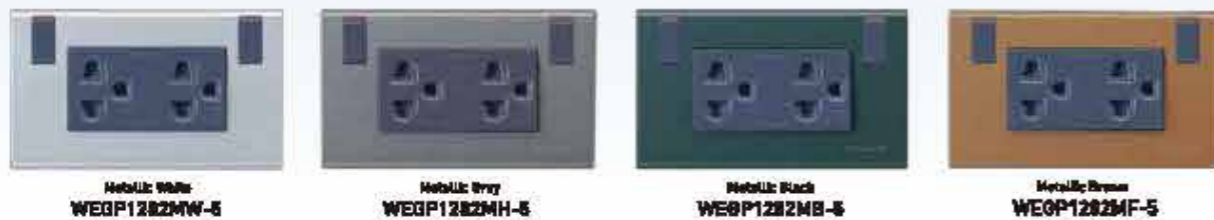
Global Terminal  
Screw Wire : 1.5-4mm<sup>2</sup>  
Standard Wire : 1.5-4mm<sup>2</sup>

## Various Combination : 7 Plate Colors × 7 Switch Colors



The last 2 characters in □□ of Refina product numbers show the item color.

## Outlet with Switches **NEW**



## Switches

**WEG5511 M H -5**  
Switch "B" Single Pole  
16AX 250V~



**WEG5521 M H -5**  
Switch "B" Single Pole  
16AX 250V~



**WEG5531 M H -5**  
Switch "B" Single Pole  
16AX 250V~



**WEG5512 M H -5**  
Switch "C" 3Way  
16AX 250V~



**WEG5522 M H -5**  
Switch "C" 3Way  
16AX 250V~



**WEG5532 M H -5**  
Switch "C" 3Way  
16AX 250V~



**WEG5551 M H -5**  
Illuminated Switch "B" Single Pole  
16AX 250V~ (Neon Lamp: 220V~)



**WEG5541 M H -5**  
Illuminated Switch "B" Single Pole  
16AX 250V~ (Neon Lamp: 220V~)



**WEG5571 M H -5**  
Illuminated Switch "B" Single Pole  
16AX 250V~ (Neon Lamp: 220V~)



**WEG5552 M H -5**  
Illuminated Switch "C" 3Way  
16AX 250V~ (Neon Lamp: 220V~)



**WEG5542 M H -5**  
Illuminated Switch "C" 3Way  
16AX 250V~ (Neon Lamp: 220V~)



**WEG5572 M H -5**  
Illuminated Switch "C" 3Way  
16AX 250V~ (Neon Lamp: 220V~)



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The product without PS mark is exempted model or with ICC sticker.

# FULL-COLOR WIDE SERIES REFINA A-TYPE



**Quick Connect Terminal**  
Solid Wire : 1.5-2.5mm<sup>2</sup>



**Global Terminal**  
Solid Wire : 1.5-4mm<sup>2</sup>  
Stranded Wire : 1.5-4mm<sup>2</sup>

## Receptacles and Accessories

<b>WEG1001H-5</b> Receptacle 16A 250V~ 	<b>WEG10919H-5</b> Universal Receptacle 16A 250V~ 	<b>WEG1161H-5</b> Grounding Receptacle with Safety Shutter 16A 250V~ 	<b>WEG1101H-5</b> Grounding Receptacle 16A 250V~ 
<b>WEG1181HK-5*</b> Grounding Universal Receptacle with Safety Shutter 16A 250V~ 	<b>WEG1441H-5</b> Tandem Grounding Receptacle 16A 250V~ For Air Conditioner 	<b>WEG1441H-5</b> <b>NEW</b> 2DA Tandem Grounding Receptacle 20A 250V~ For Air Conditioner 	<b>WEG1302H-5</b> Duplex Receptacle 16A 250V~ 
<b>WEG1552H-5</b> Grounding Duplex Receptacle with Safety Shutter 16A 250V~ 	<b>WEG1512H-5</b> Grounding Duplex Receptacle 16A 250V~ 	<b>WEG15929H-5</b> Grounding Duplex Universal Receptacle 16A 250V~ 	<b>WEG15829H-5</b> Grounding Duplex Universal Receptacle with Safety Shutter 16A 250V~ 
<b>WEG2488H</b> CAT5E Data Modular Jack for RJ45 	<b>WEG24886H</b> CAT6 Data Modular Jack 	<b>WEG2164H</b> Telephone Modular Jack (6P 4C) 	<b>WEG2164H</b> Telephone Modular Jack (6P 4C) 
<b>WEG2701H</b> Television Terminal (Current Passing Type) 	<b>Dimmer Switches</b>		<b>WEG0575181H</b> Dimmer Switch (Incandescent Light Control) 500W 220V~ 

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

\*Product is not suitable for aircon with tandem plug. This can result to loose contact between plug and socket.

## Plates

FULL-COLOR WIDE SERIES Refina A-TYPE	Unit: mm			
	Plastic Plate 1-Gang 1-Device	Plastic Plate 1-Gang 2-Device	Plastic Plate 1-Gang 3-Device	Plastic Plate 1-Gang Center 2-Device
White <b>W</b>	WEG6801W-1	WEG6802W-1	WEG6803W-1	WEG68029W-1
Metallic White <b>MW</b>	WEG6801MW-1	WEG6802MW-1	WEG6803MW-1	WEG68029MW-1
Metallic Gray <b>MG</b>	WEG6801MH-1	WEG6802MH-1	WEG6803MH-1	WEG68029MH-1
Metallic Black <b>MB</b>	WEG6801MB-1	WEG6802MB-1	WEG6803MB-1	WEG68029MB-1
Metallic Gold <b>MY</b>	WEG6801MY-1	WEG6802MY-1	WEG6803MY-1	WEG68029MY-1
Metallic Brown <b>MF</b>	WEG6801MF-1	WEG6802MF-1	WEG6803MF-1	WEG68029MF-1
Metallic Dark Brown <b>MA</b>	WEG6801MA-1	WEG6802MA-1	WEG6803MA-1	WEG68029MA-1

The last 2 characters in of Refina product numbers show the item color.

## The beauty of simplicity

Clean lines result in a sharp-looking design adding an attractive touch to your living room and office



## FULL-COLOR WIDE SERIES



FULL COLOR  
**WIDE**  
SERIES



### ELEGANTLY SIMPLE SQUARISH DESIGN

Add a refreshing accent to any room. Bold, modern plates with square shapes available in various configurations to suit residential and commercial requirements.



### HEAT-RESISTANT, EASY-TO-USE LATEST SWITCH MECHANISM

Panasonic's standard design wiring device with simple, trouble-free switch mechanism

For charging USB devices such as smartphones.  
Recommended for use in places such as hotels and restaurants.

- As the rating is 2A, the charger is also suitable for tablets.
- Safety design with over current protection. Preventing from fire accident caused by the body's heat.
- Reliable connector with 10,000 times of inserting and taking out.



**WEDP17711W**  
1-Port USB Charger and  
Receptacle with Plate







**WEDP17712W**  
1-Port USB Charger and  
Universal Receptacle with Plate

# FULL-COLOR WIDE SERIES A-TYPE

## Switches

<b>WEG5001K-5</b> Switch "B" Single Pole 16AX 250V~ 	<b>WEG5002K-5</b> Switch "C" 3Way 16AX 250V~ 	<b>WEG5003K-5</b> Switch "D" Double Pole 16AX 250V~ 	<b>WEG5004K-5</b> Switch "E" 4Way 16AX 250V~ 
<b>WEG5151K-5</b> Illuminated Switch "B" Single Pole 16AX 250V~ (Neon Lamp: 220V~) 	<b>WEG5152K-5</b> Illuminated Switch "C" 3Way 16AX 250V~ (Neon Lamp: 220V~) 	<b>WEG5141-5</b> Glow Switch "B" Single Pole (2-Wire) 6AX 250V~ 	<b>WEG5341-5</b> Glow Switch "B" Single Pole (3-Wire) 16AX 250V~ 

## Receptacles and Accessories

<b>WEG10919-5</b> Universal Receptacle 16A 250V~ 	<b>WEG1001-5</b> Receptacle 16A 250V~ 	<b>WEG1090-5</b> Round Pin Receptacle 16A 250V~ 	<b>WEG1181K-5</b> Grounding Universal Receptacle with Safety Shutter 16A 250V~ 
<b>WEG1191K-5*</b> Grounding Universal Receptacle 16A 250V~ 	<b>WEG1441-5</b> Tandem Grounding Receptacle 15A 250V~ For Air Conditioner 	<b>WEG1461-5</b> <b>NEW</b> 20A Tandem Grounding Receptacle For Air Conditioner 	<b>WEG1151-5</b> Grounding Receptacle with Safety Shutter 16A 250V~ 
<b>WEG1101-5</b> Grounding Receptacle 16A 250V~ 	<b>WEG15829-5</b> Grounding Duplex Universal Receptacle with Safety Shutter 16A 250V~ 	<b>WEG15929-5</b> Grounding Duplex Universal Receptacle 16A 250V~ 	<b>WEG1302-5</b> Duplex Receptacle 16A 250V~ 

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

\*Product is not suitable for aircon with tandem plug. This can result to loose contact between plug and socket.

**Quick Connect Terminal**  
 Solid Wire : 1.5-2.5mm<sup>2</sup>

**Global Terminal**  
 Solid Wire : 1.5-4mm<sup>2</sup>  
 Standed Wire : 1.5-4mm<sup>2</sup>

**Screw-less Terminal**  
 Suitable for Stranded Wire

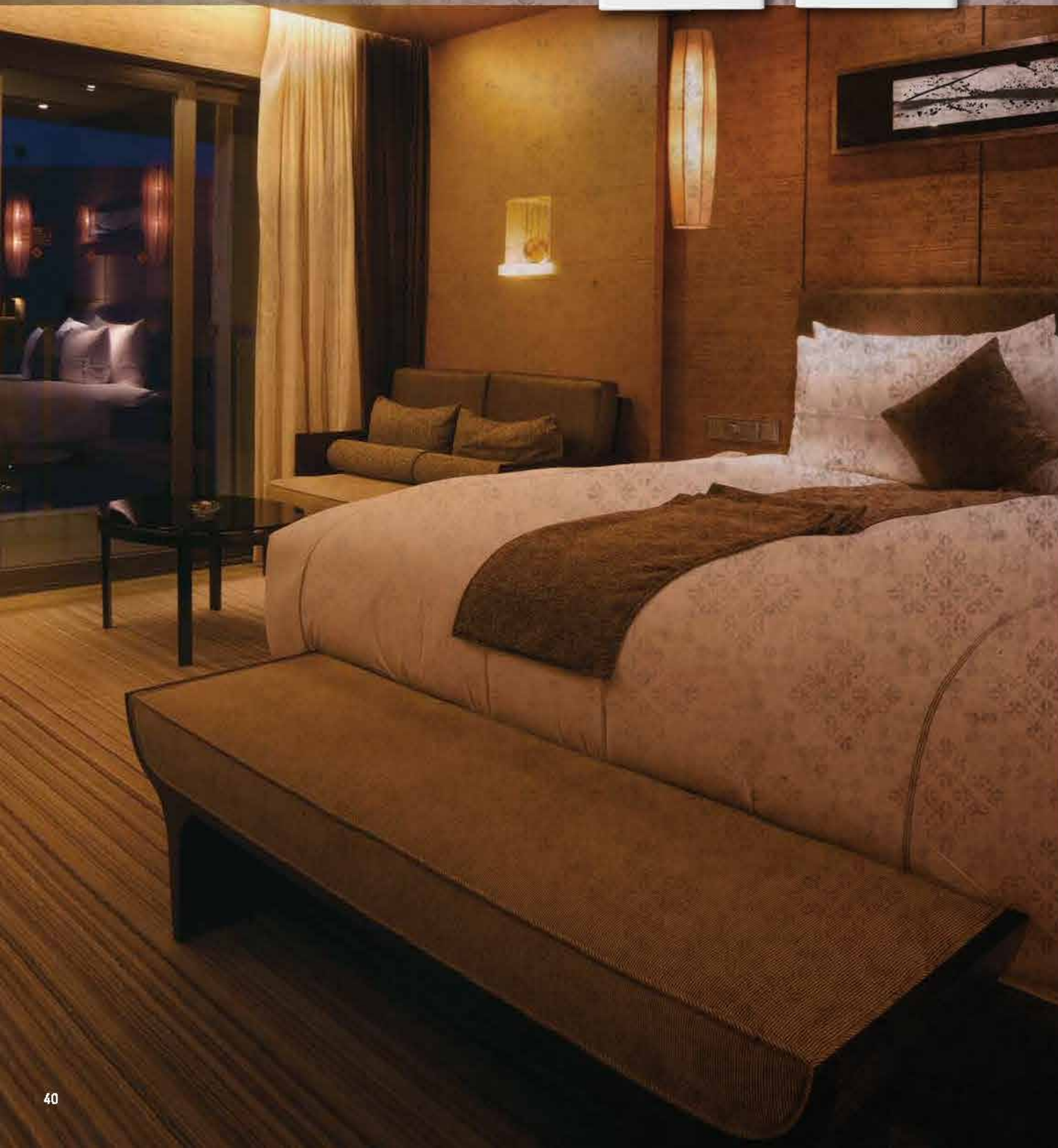
<b>WEG1552-5</b> Grounding Duplex Receptacle with Safety Shutter 16A 250V~ 	<b>WEG1512-5</b> Grounding Duplex Receptacle 16A 250V~ 	<b>WEGP1741W-P</b> EL Guard Grounding Receptacle IP20 10A 220V-AC Applicable Wire: 2.0mm <sup>2</sup> - 3.5mm <sup>2</sup> Solid Wire Only 	<b>WN1612W-8</b> Duplex Tandem Grounding Receptacle 15A 250V- AC Applicable Wire: 2.0mm <sup>2</sup> -5.5mm <sup>2</sup> Solid Wire Only 
<b>WEG24886</b> CAT6 Data Modular Jack 	<b>WEG2488</b> CAT5E Data Modular Jack 	<b>WEG2164</b> Telephone Modular Jack (6P 4C) 	<b>WEG2166</b> Telephone Modular Jack (6P 6C) 
<b>WE2731-8</b> F Type Television Terminal (Current Passing Type) 	<b>WEG2701</b> Television Terminal (Current Passing Type) 	<b>WEGP1041W-5</b> 1 Gang Multiple Receptacle 6A/10A/13A/16A 250V~ 	<b>WEG3023</b> <b>WEG3020</b> Telephone Wire Chip for 9mm Diameter 16mm Diameter Blank Chip 
<b>EGG331 (White)</b> <b>EGG335 (Dark Brown)</b> <b>NEW</b> Weather Proof Push Button for Door Chime 1A 220V~ 	<b>EBG888</b> Door Chime 220V~Two Tone 3.5W 50Hz Easy-to-Hear 82dB Chime 	<b>WEG5401-7</b> Push Button "B" Single Pole NO Contact Type 10A 250V~ 	<b>WEG5400-7</b> Push Button NC Contact Type 10A 250V~ 
<b>WEG3032G (Green)</b> <b>WEG3032W (White)</b> <b>WEG3032R (Red)</b> Pilot Lamp 220V~ 	<b>WEG575151</b> Dimmer Switch (Incandescent Light Control) 500W 220V~ *Off Function Type 	<b>WEG575181</b> Dimmer Switch (Incandescent Light Control) 800W 220V~ *Off Function Type 	

These products conform to Philippine Standards with PS mark.

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Optimized for hotel guest rooms with sophisticated design that suits any interior specifications.

# FULL-COLOR WIDE SERIES FOR HOTEL



## Switches and Accessories

### WEB1051W

Shaver Receptacle (White)  
Input : 220V~  
Output : 240V/110V-20VA



### WEB5781W

Electronic Key Card Switch (White)  
16A 220V~



### WEG5401-011

Entrance Bell  
10A 250V~



### EBG888

Door Chime  
220V~ Two Tone 3.5W 50Hz  
Easy-to-Hear 82dB Chime



### WEG3032G-031

Pilot Lamp for Indication  
"Make Up Room" (Green)  
220V~



### WEG3032R-021

Pilot Lamp for Indication  
"Don't Disturb" (Red)  
220V~



### WEG5001K-031-5

Hotel Use Switch "B" for  
Indication "Make Up Room"  
16AX 250V~



### WEG5002K-021-5

Hotel Use Switch "C" for  
Indication "Don't Disturb"  
16AX 250V~



### WEG2164

Telephone Modular Jack  
(6P 4C)



### WEG2488

CAT5E Data Modular Jack



### WE2731-8

F Type Television Terminal  
(Current Passing Type)



### WEGP1041W-5

1 Gang Multiple Receptacle  
6A/10A/13A/16A 250V~



WEGP1041W-5  
BS-Type

### WEGP17711W

1-Port USB Charger and Receptacle  
with Plate



### WEGP17712W

1-Port USB Charger and  
Universal Receptacle with Plate



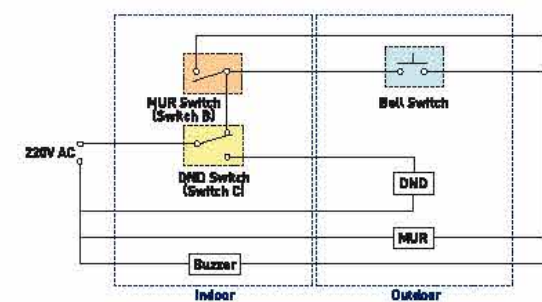
### WEGP1741W-P

EL Guard Grounding Receptacle



10A 220V~AC  
Applicable Wire: 2.0mm<sup>2</sup> - 2.5mm<sup>2</sup>  
Solid Wire Only

## Wire Connection Diagram - Do Not Disturb, Make Up Room, Bell Push


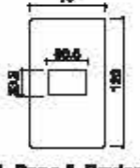
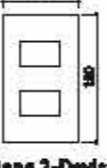
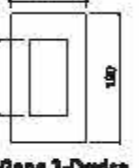
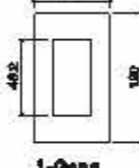

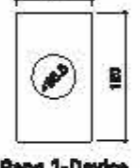
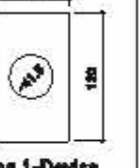
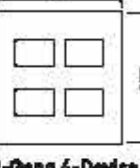
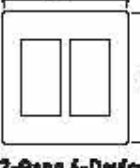








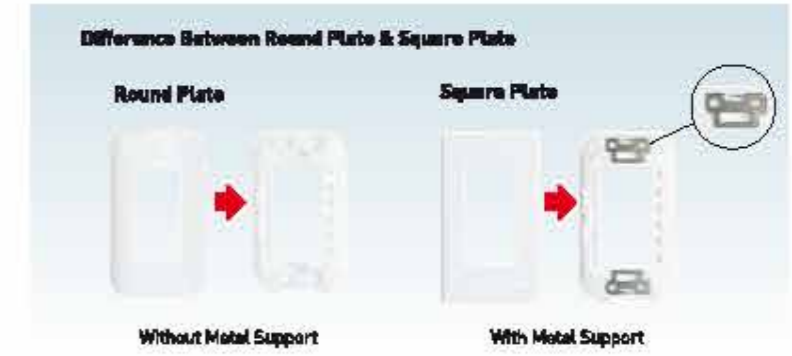
These products conform to Philippine Standards with PS mark.




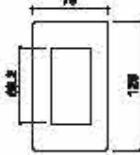
The product without PS mark is exempted model or with ICC sticker.

**FULL-COLOR WIDE SERIES / FULL-COLOR WIDE SERIES for HOTEL**

**Plates**

FULL-COLOR WIDE SERIES FULL-COLOR WIDE SERIES for HOTEL													Unit: mm
Round Plate		White	WEG6401DW	WEG64020W	WEG64030W		WEG640290W	WEG64910W	—	—	—	—	
Square Plate		White	WEG6801W-1	WEG6802W-1	WEG6803W-1		WEG68029W-1	WEG6891W-1	WZF1818W-8 Wide Type Plate For Twist Lock Receptacle Without Metal Support	WZF1819W-8 Wide Type Plate For Twist Lock Receptacle Without Metal Support	WEG6804W-1	WEG6806W-1	
Metal Plate		Aluminum	WEG6501-1	WEG6502-1	WEG6503-1		WEG65029-1	WEG6591-1					
		Stainless	WEG6601-1	WEG6602-1	WEG6603-1		WEG66029-1	WEG6691-1					
Metallic		Metallic White	WEG6801MW-1	WEG6802MW-1	WEG6803MW-1		WEG68029MW-1	WEG6891MW-1					
		Metallic Grey	WEG6801MH-1	WEG6802MH-1	WEG6803MH-1		WEG68029MH-1	WEG6891MH-1					
		Metallic Black	WEG6801MB-1	WEG6802MB-1	WEG6803MB-1		WEG68029MB-1	WEG6891MB-1					
		Metallic Gold	WEG6801MY-1	WEG6802MY-1	WEG6803MY-1		WEG68029MY-1	WEG6891MY-1					
		Metallic Brown	WEG6801MF-1	WEG6802MF-1	WEG6803MF-1		WEG68029MF-1	WEG6891MF-1					
		Metallic Dark Brown	WEG6801MA-1	WEG6802MA-1	WEG6803MA-1		WEG68029MA-1	WEG6891MA-1					
Weather Proof Plates		Metal	WEG7801	WEG7802	WEG7803		WEG78029						
		Plastic	WEG7901	WEG7902	WEG7903		WEG79029						
Weather Proof Cover Plates (Horizontal Type)		Metal		WEG8881									
		Plastic		WEG8981									



F-plate				
	White	Aluminum	White	WZ1813W
			Aluminum	WZ1823-M

\*For WN1812W-8 & WEGP174W-P

\*IP=Ingress Protection (when flap is closed).

## Perfect fit for modern interiors

Pure white and linear design is ideal for spacious modern accommodation.  
Silver & Black combination amalgamates with the shades of stylish interiors.



**NEW**

## V-HOTEL SERIES



### SLEEK & SLIM PLATES MATCHING MODERN INTERIORS.

6mm-thin plate matches with modern interior style.



### LIGHT TOUCH FEEL DESIGN

Advanced switch mechanism enables soft touch operations with less noise and less troubles.

Switches

<p><b>WIM5011-5</b> SP Switch 1Way 10AX 250V~</p>	<p><b>WIM5012-5</b> SP Switch 2Way 10AX 250V~</p>	<p><b>WIM50112-5</b> SP Switch 1Way 16AX 250V~</p>	<p><b>WIM50122-5</b> SP Switch 2Way 16AX 250V~</p>
<p><b>WIM50212-5</b> SP Switch 1Way (2 Module) 16AX 250V~</p>	<p><b>WIM51112-5</b> SP Switch with LED Indicator 1Way 16AX 250V~</p>	<p><b>WIM51212-5</b> SP Switch with LED Indicator (2 Module) 1Way 16AX 250V~</p>	<p><b>WIM50119-5</b> Bell Push Switch 10A 250V~</p>

<p><b>WIM51119-5</b> Bell Push Switch with LED 10A 250V~</p>	<p><b>WIM50219-5</b> Bell Push Switch (2 Module) 10A 250V~</p>	<p><b>WIM51219-5</b> Bell Push Switch with LED (2 Module) 10A 250V~</p>	<p><b>WIM1081-5</b> F/R Socket 2pin 10A 250V~</p>
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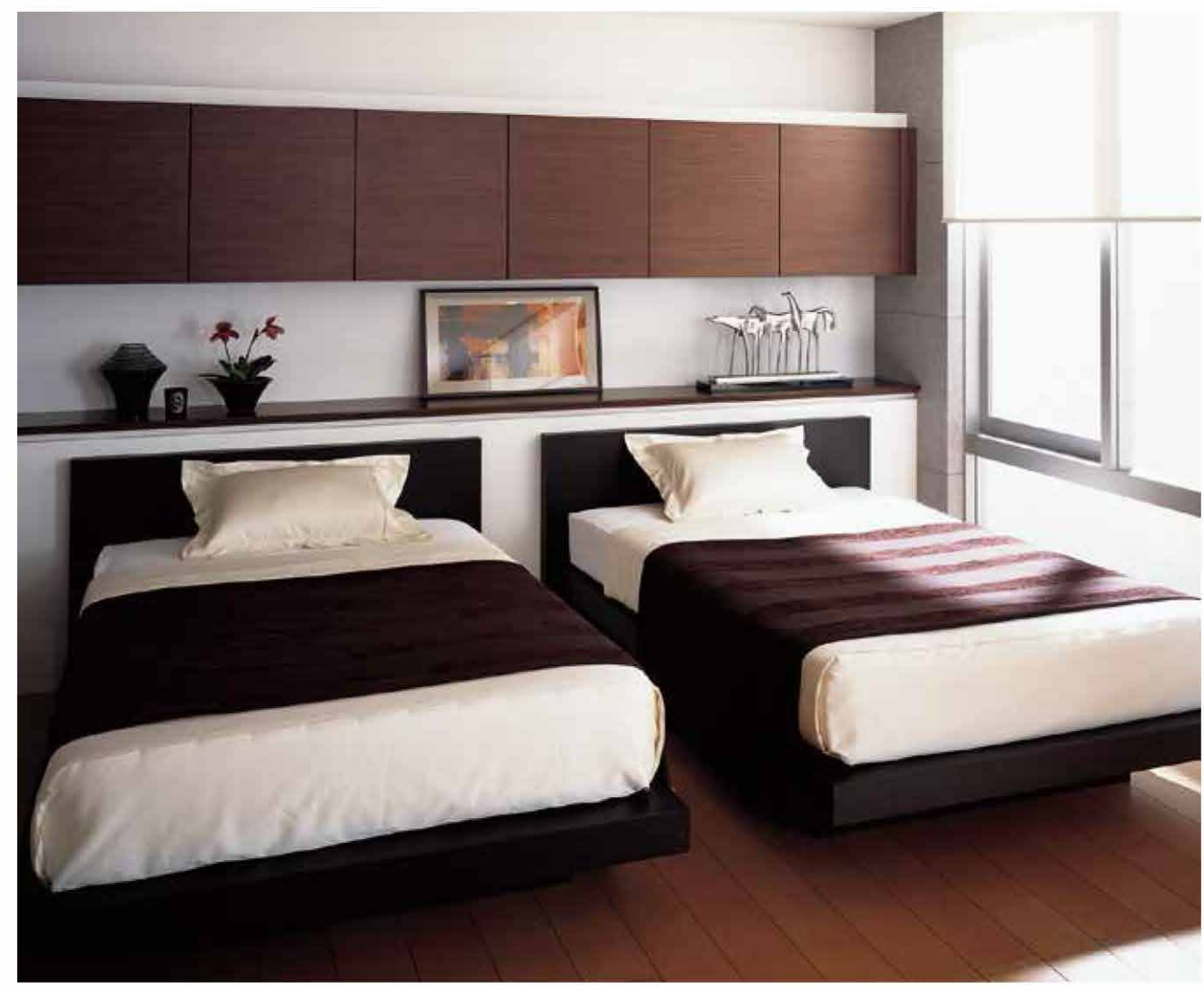
Sockets

<p><b>WIM1172-5</b> Combi Socket 2/3pin 6/10/13A 250V~</p>	<p><b>WIM2501-5</b> Television Terminal</p>	<p><b>WIM2164-5</b> Telephone Socket with Shutter</p>	<p><b>WIM2264-5</b> Double Telephone Socket</p>
<p><b>WIM2488-5</b> CAT5E Data Modular Jack</p>	<p><b>WIM24886-5</b> CAT6 Data Modular Jack</p>	<p><b>WIM3023-5</b> Cord Outlet with Grip</p>	<p><b>WIM3020-5</b> Blank Chip</p>

These products conform to Philippine Standards with PS mark. The product without PS mark is exempted model or with ICC sticker.

Hospitality Range

<p><b>WIM57812-5</b> Electrical Key Card Switch 20A 240V~</p> <p>Applicable Plate is 3 modules.</p>	<p><b>WIM1051-5</b> Shaver Socket 20A 240V~ Input: AC230V~, 50/60Hz Output: AC110V~, AC230V~, 20VA</p> <p>Applicable Plate is 4 modules.</p>
<p><b>WIMP5002K-02-5</b> DND-MMR Control Unit 10A</p> <p>Applicable Plate is 2 modules.</p>	<p><b>WIMP5002K-02B-5</b></p> <p>Applicable Plate is 3 modules.</p>



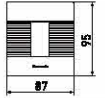
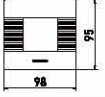
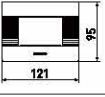
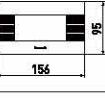
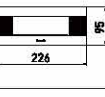
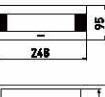
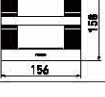
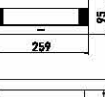
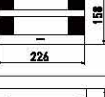


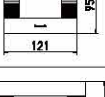
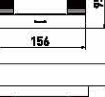
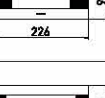
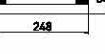
These products conform to Philippine Standards with PS mark. The product without PS mark is exempted model or with ICC sticker.

SLIM ART SERIES A-TYPE  
FLATIMA SERIES A-TYPE  
COSMO ART SERIES A-TYPE  
FULL-COLOR WIDE SERIES REFINA A-TYPE  
FULL-COLOR WIDE SERIES A-TYPE  
FULL-COLOR WIDE SERIES for HOTEL  
V - HOTEL SERIES  
FULL-COLOR SERIES A-TYPE

SLIM ART SERIES A-TYPE  
FLATIMA SERIES A-TYPE  
COSMO ART SERIES A-TYPE  
FULL-COLOR WIDE SERIES REFINA A-TYPE  
FULL-COLOR WIDE SERIES A-TYPE  
FULL-COLOR WIDE SERIES for HOTEL  
V - HOTEL SERIES  
FULL-COLOR SERIES A-TYPE



Plates

V-HOTEL SERIES	Unit: mm	
	White	Black Silver
 1 Module	WIM6011-5	WIM6011S-5
 2 Module	WIM6012-5	WIM6012S-5
 3 Module	WIM6013-5	WIM6013S-5
 4 Module	WIM6014-5	WIM6014S-5
 6 module	WIM6016-5	WIM6016S-5
 8 Module Horizontal	WIM6018-5	WIM6018S-5
 8 Module Rectangular	WIM6024-5	WIM6024S-5
 9 Module	WIM6019-5	WIM6019S-5
 12 Module	WIM6026-5	WIM6026S-5
 16 Module	WIM6028-5	WIM6028S-5
 18 Module	WIM6036-5	WIM6036S-5
 3 Module with LED locator	WIM6113-5	WIM6113S-5
 4 Module with LED locator	WIM6114-5	WIM6114S-5
 6 Module with LED locator	WIM6116-5	WIM6116S-5
 8 Module with LED locator	WIM6118-5	WIM6118S-5

Delivery time for V-HOTEL SERIES products may take 2-3 months depending on the product number.

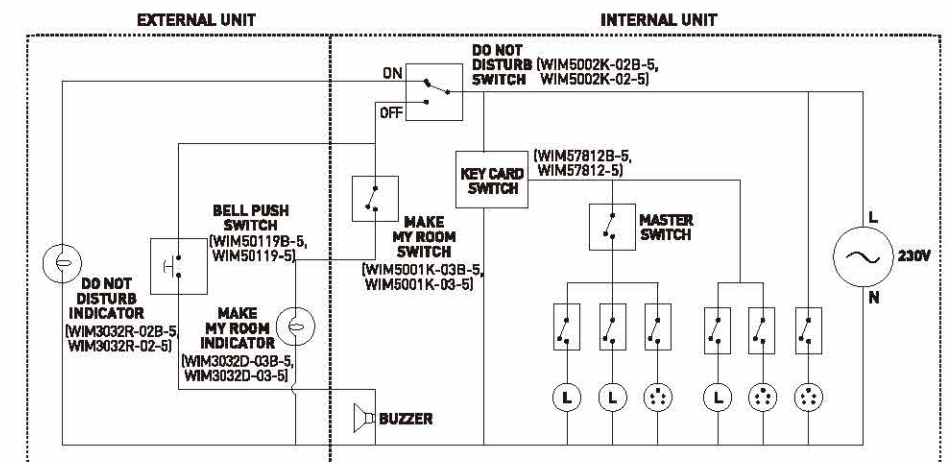
GI Sheet Metal Boxes / Concealed Plastic Boxes

V-HOTEL SERIES	Unit: mm	
	GI Sheet Metal Boxes	Concealed Plastic Boxes
1 or 2 Module	21780 79 x 75 x 46	21237 78 x 78 x 45
3 Module	21452 79 x 99 x 46	21306 75 x 103 x 52
4 Module	21791 79 x 135 x 52	21248 76 x 136 x 46
6 Module	21463 79 x 207 x 52	21259 76 x 205 x 50
8 or 9 Module Horizontal	30453 79 x 230 x 52	30475 78 x 229 x 50
8 Module Rectangular	21474 132 x 135 x 56	21260 135 x 133 x 51
12 Module	21485 132 x 207 x 56	21270 135 x 206 x 51
16 Module	21736 142 x 230 x 56	-
18 Module	21758 207 x 207 x 60	21408 204 x 207 x 51

These boxes are specially designed for V-HOTEL Series only.

Hotel Room Wiring Diagram

DND / MMR and Keycard



Note: This is a schematic electrical diagram of hotel room electrical components. Bell Push and MMR will not work when DND is in on position.

## The standard of excellence for any installation

Simple design compatible with any interior plan.



## FULL-COLOR SERIES



### WIDE RANGE OF COLORS TO SELECT FROM FOR PERFECT COLOR COORDINATION.

Designed for compatibility with any international wiring standards and installation requirements.



### HEAT-RESISTANT, EASY-TO-USE LATEST SWITCH MECHANISM

A basic Panasonic wiring device with simple, trouble-free switch mechanism.

# FULL-COLOR SERIES A-TYPE



## Switches

<p><b>WNG5001-5</b> Switch "B" Single Pole 16AX 250V~</p>	<p><b>WNG5002-5</b> Switch "C" 3Way 16AX 250V~</p>	<p><b>WNG5003-5</b> Switch "D" Double Pole 10A 250V~</p>	<p><b>WNG5004-5</b> Switch "E" 4Way 10A 250V~</p>
<p><b>WNG5051-5</b> Illuminated Appellation Switch "B" Single Pole 16AX 250V~ (Neon Lamp :220V~)</p>	<p><b>WNG5052-5</b> Illuminated Appellation Switch "C" 3Way 16AX 250V~ (Neon Lamp :220V~)</p>	<p><b>WNG5151-5</b> Illuminated Switch "B" Single Pole 16AX 250V~ (Neon Lamp :200V~)</p>	<p><b>WNG5152-5</b> Illuminated Switch "C" 3Way 16AX 250V~ (Neon Lamp :220V~)</p>
<p><b>WNG5241-801</b> Appellation Glow Switch "B" 3Way Single Pole 4A 300V~ Applicable Wire 2-3.5 mm² Solid Wire Only</p>	<p><b>WNG5061-5</b> Appellation Switch "B" Single Pole 16AX 250V~</p>	<p><b>WNG5062-5</b> Appellation Switch "C" 3Way 16AX 250V~</p>	<p><b>WNG5021-5</b> Twin Switch "B" Single Pole 10A 250V~</p>
<p><b>WNG5401-7K</b> Push Button "B" Single Pole 10A 300V~</p>	<p><b>WNG5461-7</b> Appellation Push Button "B" Single Pole 10A 300V~</p>	<p><b>WNG5463-7K</b> Appellation Push Button "D" Double Pole 10A 300V~</p>	<p><b>WNG5460-7K</b> Appellation Push Button NC Contact Type 10A 300V~</p>
<p><b>WNH5611-801</b> Tablet Switch 10A 250V~</p>			

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

## Receptacles and Accessories

<p><b>WN1001-5</b> Receptacle 10A 250V~</p>	<p><b>WN1502-5</b> Duplex Receptacle 10A 250V~</p>	<p><b>WN1101-5</b> 3Wire Grounding Receptacle 10A 250V~</p>	<p><b>WN1512-5</b> 3Wire Grounding Duplex Receptacle 10A 250V~</p>
<p><b>WNG1091-5</b> Universal Receptacle 10A 250V~</p>	<p><b>WN1090-5</b> Round Pin Receptacle 10A 250V~</p>	<p><b>WN1592-5</b> Grounding Duplex Universal Receptacle 10A 250V~</p>	<p><b>WN1112-8</b> Tandem Grounding Receptacle 15A 250V~ Applicable 2-3.5 mm² Solid Wire Only</p>
<p><b>WN1612-8</b> Duplex Tandem Grounding Receptacle 15A 250V~ Applicable 2-5.5 mm² Solid Wire Only</p>	<p><b>WZ1431-8</b> Tandem Grounding Receptacle 15A 250V~ Applicable 2-5.5 mm² Solid Wire Only</p>	<p><b>WNT615649</b> Telephone Modular Jack (6P 4C)</p> <p><b>WNT15669-8</b> Telephone Modular Jack (6P 6C)</p>	<p><b>NR3160-8</b> Enhanced CAT5E Data Modular Jack</p>
<p><b>NR3170-8</b> CAT6 Data Modular Jack</p>	<p><b>WCS3063K-8</b> Television Terminal (Current Passing Type)</p>	<p><b>WN3022</b> Telephone Wire Chip for 14mm Diameter</p>	<p><b>WN3040K-8</b> Grounding Terminal</p>
<p><b>WN3700-8</b> Mounting Strap</p>	<p><b>WN3851-8</b> 1-Device Plate for Movable Partition</p> <p><b>WN3852-8</b> 2-Device Plate for Movable Partition</p>	<p><b>WN3801-8</b> 1-Device Mounting Strap for WN3851-8</p> <p><b>WN3802-8</b> 2-Device Mounting Strap for WN3852-8</p>	

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

SLIM ART SERIES A-TYPE  
FLATIMA SERIES A-TYPE  
COSMO ART SERIES A-TYPE  
FULL-COLOR WIDE SERIES REFINA A-TYPE  
FULL-COLOR WIDE SERIES A-TYPE  
FULL-COLOR WIDE SERIES for HOTEL  
V-HOTEL SERIES  
FULL-COLOR SERIES A-TYPE

SLIM ART SERIES A-TYPE  
FLATIMA SERIES A-TYPE  
COSMO ART SERIES A-TYPE  
FULL-COLOR WIDE SERIES REFINA A-TYPE  
FULL-COLOR WIDE SERIES A-TYPE  
FULL-COLOR WIDE SERIES for HOTEL  
V-HOTEL SERIES  
FULL-COLOR SERIES A-TYPE

# FULL-COLOR SERIES A-TYPE



**WN09986**  
Capacitor Unit for Illuminated Switch  
200V-0.1µF

**WN63032W-7(White)**  
**WN63032G-7(Green)**  
**WN63032R-7(Red)**  
Pilot Lamp  
220V~

**WN4500-8**  
Emergency Push Button "D"  
Double Pole  
6A 200V~

**WN3020-8**  
Blank Chip

**WY2501**  
Pin Lug  
(for 2-2.5mm² wire)

Refer page 68

## Dimmer Switches

**WN0P575253**  
Dimmer Switch with Modern Plate  
(Incandescent Light Control)  
600W 220-240V~  
Applicable Wire  
2-3.5 mm²  
Solid Wire Only

**WN0P575152**  
Dimmer Switch with Blank Chip and Modern Plate  
(Incandescent Light Control)  
600W 220-240V~  
Applicable Wire  
2-3.5 mm²  
Solid Wire Only

**WN0P575203**  
Dimmer Switch with Modern Plate  
(Incandescent Light Control)  
600W 220-240V~  
Applicable Wire  
2-3.5 mm²  
Solid Wire Only

**WN0P575213**  
Dimmer Switch with Modern Plate  
(Incandescent Light Control)  
1300W 220-240V~  
Applicable Wire  
2-3.5 mm²  
Solid Wire Only

## Surface Mounting Type

**WK1021-250**  
Surface Mounting Duplex  
Receptacle

**WK3004-250K**  
Surface Mounting 3Wire  
Grounding Duplex Receptacle

**WK1091-250**  
Surface Mounting Universal  
Receptacle  
10A 250V~

**WKG1092-5**  
Surface Mounting Universal  
Duplex Receptacle

## Plates

FULL-COLOR SERIES A-TYPE	Modern Plate		Aluminum Plate		Stainless Plate
	Without Mounting Strap	With Mounting Strap	Screw Visible	Screw Invisible	Screw Visible
			With Mounting Strap	With Mounting Strap	With Mounting Strap
Unit: mm					
	—	WNF6201W-8	WN7501-8	WN6501K-8	WN7601-8
	WNF6202-89	WNF6202W-8	WN7502-8	WN6502K-8	WN7602-8
	WNF6203-89	WNF6203W-8	WN7503-8	WN6503K-8	WN7603-8
	—	WNF6221W-8	—	—	—
	—	WNF6204W-8	WN7504-8	WN6504K-8	WN7604-8
	—	WNF6206W-8	WN7506-8	WN6506K-8	WN7606-8
	—	WNF6209W-8	WN7509-8	WN6509K-8	WN7609-8
	—	—	WN7512-8	WN6512K-8	WN7612K
	—	—	WN7515-8	WN6515K-8	WN7615K
	—	—	WN7518-8	WN6518K-8	WN7618K
	—	WNF6291W-8	WN7591-8	WN6591K	WN7691-8
	—	WNF6281W-8	—	—	—
	—	WNF6253W-8	WN9513-8	WN6553K	WN9613K
	—	WNF6254W-8	WN9514	WN6554K	WN9614K
	—	WNF6255W-8	WN9515	WN6555K	WN9615K
<b>Weather Proof Plates</b>					
Metal	Plastic	WN7801K-8	WN7901-8	WN7802K-8	WN7902-8
		WN7803K-8	WN7903-8	WN7821K-8	WN7921-8

These products conform to Philippine Standards with PS mark.

The product without PS mark is exempted model or with ICC sticker.

## Locking Receptacles and Weather Proof Locking Receptacles

NOTE		Locking Flush Mounting Receptacles		Locking Surface Mounting Receptacles		Weather Proof Locking Receptacles (JIS Weather Proof Type)		Applicable Electrical Wire	
Note: For locking flush mounting receptacles (20A and 30A) indicated by a * mark, because no more than one plug can be plugged in at the same time if the receptacles are installed in a multi-receptacle plate, use single plates and install the number needed.									
Form	Rating	Black	Milky White	Black	Milky White				
2P	15A 125V	WF2215BK	WF2215WK	WK2215	WK2215W	-		Ø1.6, Ø2 2mm <sup>2</sup> , 3.5mm <sup>2</sup>	
	20A 250V	WF2220BK*	WF2220WK*	WK2220K	-	-		Ø2, Ø2.6 3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	
3P	20A 250V	WF2320BK*	WF2320WK*	WK2320K	WK2320W	WK6320		Ø2, Ø2.6 3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	
	30A 250V	WF2331B*	WF2331W*	WK2331B	WK2331W	WK6331		Ø2.6, Ø3.2 5.5mm <sup>2</sup> , 8mm <sup>2</sup>	
	60A 250V	WF2360B	WF2360W	-	-	-		8mm <sup>2</sup> , 14mm <sup>2</sup>	
Grounding 2P (Previously 3P)	15A 125V	WF2315BK	WF2315WK	WK2315K	WK2315W	WK6315		Ø1.6, Ø2 2mm <sup>2</sup> , 3.5mm <sup>2</sup>	
	20A (L6-20) 250V	WF2520B*	WF2520W*	WK2520B	WK2520W	WK6520		Ø2, Ø2.6 3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	
	30A (L6-30) 250V	WF2330B*	WF2330W*	WK2330	WK2330W	WK6330		Ø2.6, Ø3.2 5.5mm <sup>2</sup> , 8mm <sup>2</sup>	
Grounding 3P (Previously 4P)	20A 250V	WF2420BK*	WF2420WK*	WK2420K	-	WK6420		Ø2, Ø2.6 3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	
	30A (L11-30) 250V	WF2430B*	WF2430W*	WK2430	-	WK6430		Ø2.6, Ø3.2 5.5mm <sup>2</sup> , 8mm <sup>2</sup>	
	60A 250V	WF2460B	WF2460W	-	-	-		8mm <sup>2</sup> , 14mm <sup>2</sup>	

\*The 3P 30A and the grounding 3P 30A receptacles conform to NEMA standards and are not exchangeable with some of the receptacles used domestically in Japan.  
 \*\*Multi-Level Weather Proof Valve is adopted.  
 Numbers indicated by a [ ] mark are the NEMA standard number.

## Locking Weather Proof Rubber Cord Connectors, Plugs, Bodies, Locking Plugs, and Locking Cord Connectors

Applicable Wire Types: Rubber Cabtire Cable [Type 2 or less], Round Rubber Cabtire Cord, Vinyl Cabtire Cable, and Round Vinyl Cabtire Cord

Applicable Electrical Wire	Locking Plugs			Tough Plugs		Flush Cord Locking Corner Plugs "Horizontal Type"		Locking Water Proof Rubber Cord Connector Plugs and Cord Connector Bodies (JIS Weather Proof Type)			Applicable Electrical Wire's Outer Diameter (Ø)
	Black	Milky White	Black	Milky White	Black	Milky White	Plugs	Bodies	Set		
1.25mm <sup>2</sup> 2mm <sup>2</sup> 2mm <sup>2</sup> -5mm <sup>2</sup>	WF6215	WF6215W	-	-	-	-	-	WF8215K	WA5219K	WA5215K	9.6-12
2mm <sup>2</sup> 3.5mm <sup>2</sup>	WF6220	WF6220W	-	-	-	-	-	WF8220K	WA5229K	WA5220K	10.5-13.5
2mm <sup>2</sup> 3.5mm <sup>2</sup>	WF6320	WF6320W	-	-	-	-	WF3324 (Horizontal Type)	WF8320K	WA5329K	WA5320K	11-14.5
3.5mm <sup>2</sup> 5.5mm <sup>2</sup>	WF6331B	WF6331W	-	-	-	-	-	WF8331	WA5338	WA5331	13-16
8mm <sup>2</sup> 14mm <sup>2</sup>	-	-	-	-	-	-	-	WF8360	WA5369	WA5360	17.5-22
1.25mm <sup>2</sup> 2mm <sup>2</sup>	WF6315	WF6315W	-	-	-	-	WF3314 (Horizontal Type)	WF8315K	WA5319K	WA5315K	10.5-13
2mm <sup>2</sup> 3.5mm <sup>2</sup>	-	-	-	-	-	-	WF3524 (Horizontal Type)	WF8520	WA5529	WA5520	11-14.5
3.5mm <sup>2</sup> 5.5mm <sup>2</sup>	WF6330	WF6330W	-	-	-	-	WF3334 (Horizontal Type)	WF8330	WA5339	WA5330	13-16
2mm <sup>2</sup> 3.5mm <sup>2</sup>	WF6420	WF6420W	-	-	-	-	WF3424 (Horizontal Type)	WF8420K	WA5429K	WA5420K	12-16
3.5mm <sup>2</sup> 5.5mm <sup>2</sup>	WF6430	WF6430W	-	-	-	-	WF3434 (Horizontal Type)	WF8430	WA5439	WA5430	14-17.5
8mm <sup>2</sup> 14mm <sup>2</sup>	-	-	-	-	-	-	-	WF8460	WA5469	WA5460	19.5-24

Note: • For outdoor wiring exposed to rain, use either rubber cabtire cable or vinyl cabtire cable.  
 • For indoor locations exposed to moisture or high humidity, use rubber cabtire cable.  
 • If you use stranded wire on screw terminal, please don't solder up the copper wires at the terminal.  
 There is a possibility that heating will occur since long time use may bring about oxidizing on surface of solder and make the contact between terminal and solder defective.

### Features

The Japan Electric Association Code has been revised (8001-1990), with the distinction between grounding poles and grounded-side pins clearly identified. In addition, although not stipulated in the Japan Electric Association Code, these receptacles have been established by the standards of the Japan Wiring Devices Association.

### Explanation of The Revisions (Related Sections)

Revisions in The Internal Wiring Standards	Before Revision	After Revision	Our Previous Product	Newly Established
20A	<p>Could be used as the grounding pole.</p>	<p>Stipulated for exclusive use.</p>	<p>Also used as a grounding pole.</p>	<p>New Pole Arrangement with the NEMA L1-30 module Grounding side pole (W)</p>
30A	<p>Stipulated for exclusive use.</p>	<p>New pole arrangement.</p>	<p>Also used as a grounding pole.</p>	<p>Product name changed to grounding 3P 30A (NEMA L6-30)</p>

The diagram above is indicating the face of receptacles. Pole arrangements which are not stipulated in the Japan Electric Association Code are selected according to the standards of the Japan Wiring Devices Association.

### Dimensions (units: mm)

#### Locking Flush Mounting Receptacles

\* for appropriate plates, please refer to pages 39 & 45

Model No.	Dimension A	Dimension B	Dimension C	Dimension D
2P WF2215BK-WK	36.5	50	34.5	18.8
2P WF2220BK-WK	36.5	50	34.5	25.5
2P WF2320BK-WK	38.8	59.5	34.5	25.5
3P WF2315B-W	42.6	67.7	40.5	27.7
3P WF2331B-WK	37.7	59	34.5	24
3P WF2360B-W	58.9	59.5	34.5	25.5
Grounding 2P WF2520B-W	42	69.1	40.5	30
Grounding 3P WF2420B-WK	43	61	40.5	25.5
Grounding 3P WF2430B-W	42	67	40.5	30

Applicable Box for WF2360/WF2460  
 Use a medium deep-type square receptacle box together with a square double switch cover (inner square 13 mm)

#### Locking Surface Mounting Receptacles

Model No.	Dimension A
3P WK6320	34.5
3P WK6331	40.5
Grounding 2P (Previously 3P) WK6315	34.5
Grounding 2P (Previously 3P) WK6320	34.5
Grounding 2P (Previously 3P) WK6330	40.5
Grounding 3P (Previously 4P) WK6420	40.5
Grounding 3P (Previously 4P) WK6430	40.5

#### Weather Proof Locking Receptacles

Model No.	Dimension A
3P WK6320	34.5
3P WK6331	40.5
Grounding 2P (Previously 3P) WK6315	34.5
Grounding 2P (Previously 3P) WK6320	34.5
Grounding 2P (Previously 3P) WK6330	40.5
Grounding 3P (Previously 4P) WK6420	40.5
Grounding 3P (Previously 4P) WK6430	40.5

All products have entirely the same specifications as those sold in Japan.

### Features

Locking corner plugs are suitable for large kitchen equipment and other electrical equipment.

- Horizontal type can make electrical code line compact
- Even if in the narrow space, you can arrange equipment in order.

WF3424

Horizontal type can make electrical code line compact

For the connection of the power supply to electrical equipment in factories, etc. 2P 15A locking weatherproof rubber cord connector. (Locking flat plugs + weatherproof construction + compact size)

WA5219

2P 15A Locking weatherproof rubber cord connector body 15A 125V

WA6215

2P 15A Locking weatherproof rubber cord connector (set) 15A 125V

Applicable wire: 1.25-2mm<sup>2</sup> (outer diameter 9.6-12mm)

Model No.	Dimension A	Dimension B	Dimension C
2P WF8216K	82	41	12
2P WF8220K	88	47.2	13.5
2P WF8320K	88.8	53	14.5
3P WF8331	89.5	69.5	16
3P WF8360	178	80.5	22
3P WF8316K	84.5	46	13.5
3P WF8315W	78.2	46	14.5
3P WF8330	89.5	69.5	16
3P WF8420K	79	63.6	16
3P WF8430	89.5	69.5	17.5
3P WF8460	178	80.5	24

Model No.	Dimension A	Dimension B	Dimension C
2P WF8216K	89	44	12
2P WA5229K	96	51.5	13.5
2P WA5329K	103.5	56.5	14.5
3P WA5338	118.5	74.5	16
3P WA5369	171.5	74	22
3P WA5319K	97	49	13
3P WA5529	112	53.5	14.6
3P WA5339	118.5	74.5	16
3P WA5429K	112	67.5	16
3P WA5439	118.5	74.5	17.5
3P WA5469	171.5	74	24

Model No.	Dimension A
2P WA5215K	148.5
2P WA5220K	161
2P WA5320K	169.1
3P WA5331	208.5
3P WA5360	320
3P WA5315K	159
3P WA5620	183.9
3P WA5390	208.5
3P WA5420K	187.5
3P WA5430	208.5
3P WA5460	320

All products have entirely the same specifications as those sold in Japan.

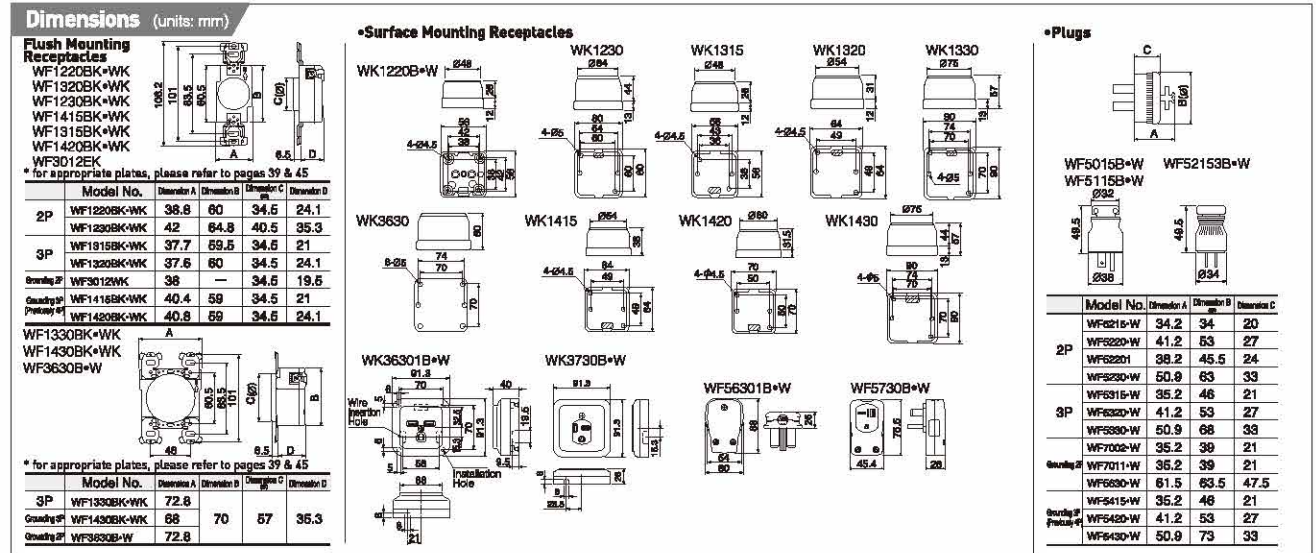
High-Capacity Flush Mounting Receptacles, Surface Mounting Receptacles, Plugs, and Cord Connectors

Applicable Wire Types: Rubber Cabtire Cable (Type 2 or less), Round Rubber Cabtire Cord, Vinyl Cabtire Cable, and Round Vinyl Cabtire Cord

**Note**  
Note: For models WF1220BK/WK, WF1230BK/WK, WF1320BK/WK, WF1420BK/WK indicated by a ※1 mark, due to the size of the plugs, no more than one plug can be plugged in at the same time if the receptacles are installed in a multi-receptacle switch box. Therefore, if two or more circuits are to be used at the same time, use single switch boxes and install the number needed.

Form	Rating	Flush Mounting Receptacles		Surface Mounting Receptacles		Plugs		Tough Plugs		Plugs "Horizontal Type"		Applicable Electrical Wire
		Black	Milky White	Black	Milky White	Plugs		Tough Plugs		Plugs "Horizontal Type"		
						Black	Milky White	Black	Milky White	Black	Milky White	
2P	15A 125V	—	—	—	—	WF5215	WF5215W	—	—	—	—	1.25mm <sup>2</sup> , 2mm <sup>2</sup> , 2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	15A 250V	—	—	—	—	—	—	WF52153B	WF52153W	—	—	—
	20A 250V	WF1220BK	WF1220WK	WK1220B	WK1220W	WF5220	WF5220W	—	—	—	—	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF1230BK	WF1230WK	WK1230	—	WF5230	WF5230W	—	—	—	—	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>
3P	15A 250V	WF1315BK	WF1315WK	WK1315	—	WF5315	WF5315W	—	—	—	—	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	20A 250V	WF1320BK	WF1320WK	WK1320	—	WF5320	WF5320W	—	—	—	—	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF1330BK	WF1330WK	WK1330	—	WF5330	WF5330W	—	—	—	—	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>
	15A 125V	—	—	—	—	WF7002	WF7002W	—	—	—	—	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
Grounding 2P	15A 250V	—	WF3012WK (Cream)	—	—	WF7011	WF7011W	—	—	—	—	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	30A 250V	WF3630B	WF3630W	WK3630	—	WF5630	WF5630W	—	—	—	—	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>
		—	—	—	WK3630B Thin Type	WK3630W Thin Type	WF5630B Horizontal Type	WF5630W Horizontal Type	—	—	—	—
	—	—	—	—	WK3730B Thin Type	WK3730W Thin Type	WF5730B Horizontal Type	WF5730W Horizontal Type	—	—	—	—
Grounding 3P (Previously 4P)	15A 250V	WF1415BK	WF1415WK	WK1415	—	WF5415	WF5415W	—	—	—	—	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	20A 250V	WF1420BK	WF1420WK	WK1420	—	WF5420	WF5420W	—	—	—	—	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF1430BK	WF1430WK	WK1430	—	WF5430	WF5430W	—	—	—	—	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>

Note: Electrical wire indicated in parentheses ( ) cannot be used for surface mounting receptacles.



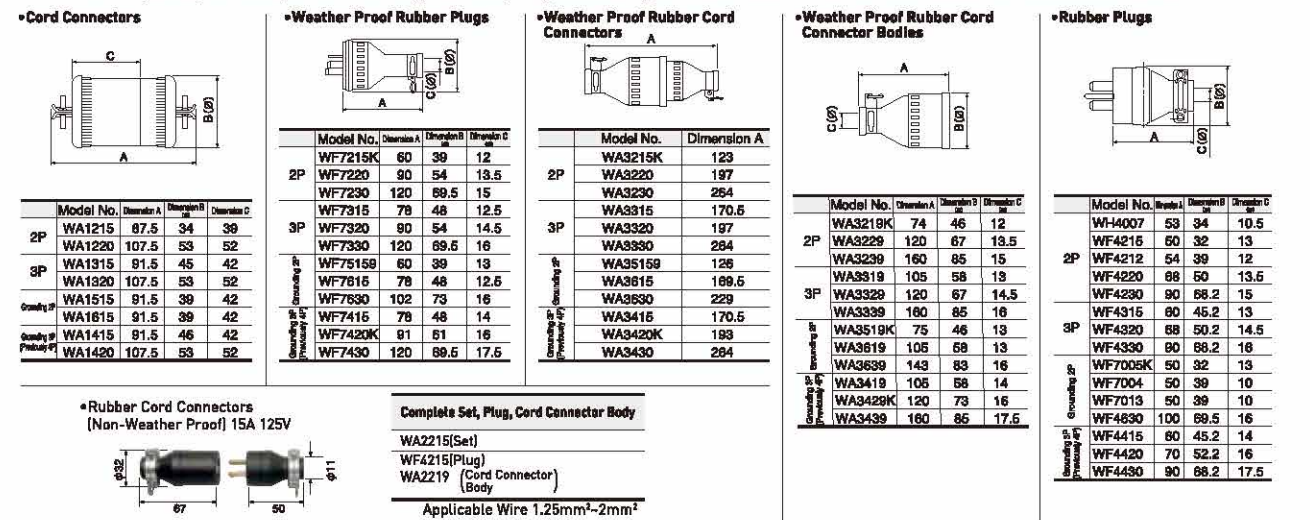
All products have entirely the same specifications as those sold in Japan.

Locking Weather Proof Rubber Cord Connectors, Plugs, Bodies, Locking Plugs, and Locking Cord Connectors

Applicable Wire Types: Rubber Cabtire Cable (Type 2 or less), Round Rubber Cabtire Cord, Vinyl Cabtire Cable, and Round Vinyl Cabtire Cord

Form	Rating	Weather Proof Rubber Cord Connector Plugs and Cord Connector Bodies (JIS Rain-Proof Type)			Applicable Wire Outer Diameter	Rubber Plug (non-Weather Proof Type)	Applicable Electrical Wire	Cord Connectors (Body)		Cord Connectors (Complete Sets)	
		Plug (WF7420K)	Body (WA3429K)	Set (WA3420K)				Black	Black		
2P	15A 125V	WF7215K	WA3219K	WA3215K	9.6-12	WH4007 WF4215	1.25mm <sup>2</sup> , 2mm <sup>2</sup>	WA1219	—	WA1215 (Body WA1219) (Plug WF5215)	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	15A 250V	—	—	—	—	WF4212	1.25mm <sup>2</sup> , 2mm <sup>2</sup>	—	—	—	
	20A 250V	WF7220	WA3229	WA3220	10.5-13.5	WF4220	2mm <sup>2</sup> , 3.5mm <sup>2</sup>	WA1229	—	WA1220 (Body WA1229) (Plug WF5220)	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF7230	WA3239	WA3230	12-15	WF4230	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	—	—	—	
3P	15A 250V	WF7315	WA3319	WA3315	10.5-13	WF4315	1.25mm <sup>2</sup> , 2mm <sup>2</sup>	WA1319	—	WA1315 (Body WA1319) (Plug WF5315)	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	20A 250V	WF7320	WA3329	WA3320	11-14.5	WF4320	2mm <sup>2</sup> , 3.5mm <sup>2</sup>	WA1329	—	WA1320 (Body WA1329) (Plug WF5320)	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF7330	WA3339	WA3330	13-16	WF4330	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	—	—	—	
	15A 125V	WF75159	WA3519K	WA35159	10.5-13	WF7005K WF7004	0.75mm <sup>2</sup> -2mm <sup>2</sup> , 2mm <sup>2</sup>	WA1519	—	WA1515 (Body WA1519) (Plug WF7002)	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
Grounding 2P	15A 250V	WF7615	WA3619	WA3615	10.5-13	WF7013	1.25mm <sup>2</sup> , 2mm <sup>2</sup>	WA1619	—	WA1615 (Body WA1619) (Plug WF7011)	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	30A 250V	WF7630	WA3639	WA3630	13-16	WF4630	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	—	—	—	
Grounding 3P (Previously 4P)	15A 250V	WF7415	WA3419	WA3415	11.5-14	WF4415	1.25mm <sup>2</sup> , 2mm <sup>2</sup>	WA1419	—	WA1415 (Body WA1419) (Plug WF5415)	1.25mm <sup>2</sup> , 2mm <sup>2</sup>
	20A 250V	WF7420K	WA3429K	WA3420K	12-16	WF4420	2mm <sup>2</sup> , 3.5mm <sup>2</sup>	WA1429	—	WA1420 (Body WA1429) (Plug WF5420)	2mm <sup>2</sup> , 3.5mm <sup>2</sup>
	30A 250V	WF7430	WA3439	WA3430	14-17.5	WF4430	3.5mm <sup>2</sup> , 5.5mm <sup>2</sup>	—	—	—	

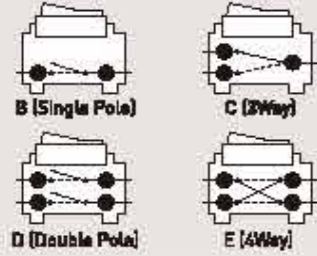
Note: • For outdoor wiring exposed to rain, use either rubber cabtire cable or vinyl cabtire cable.  
• For indoor locations exposed to moisture or high humidity, use rubber cabtire cable.  
• If you use stranded wire on screw terminal, please don't solder up the copper wires at the terminal.  
There is a possibility that heating will occur since long time use may bring about oxidizing on surface of solder and make the contact between terminal and solder defective.



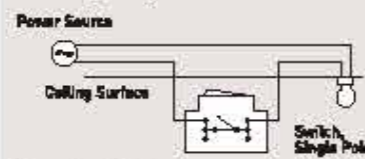
All products have entirely the same specifications as those sold in Japan.

Switches

Contact Structure

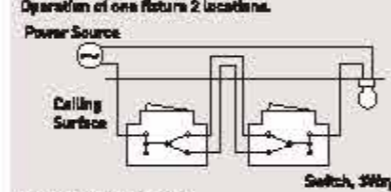


Switch, Single Pole



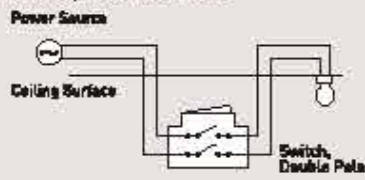
Example of Switches  
 W60001K-S W60001-S  
 W60101K-S W60101-S  
 W60201-S W60201-S

Switch, 3Way



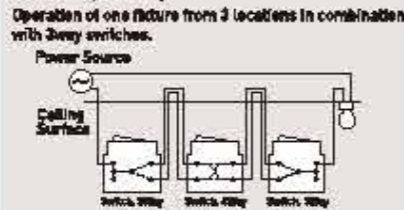
Example of Switches  
 W60002K-S W60002-S W60102K-S  
 W60102-S W60202-S W60202-S

Switch, Double Pole



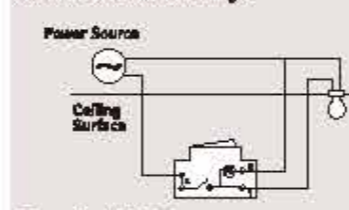
Example of Switches  
 W60002K-S  
 W60002-S

Switch, 4Way



Example of Switches  
 W60004K-S W60004-S

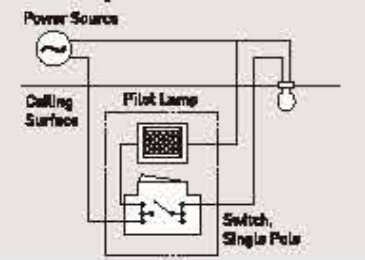
Glow Switch(3Way)



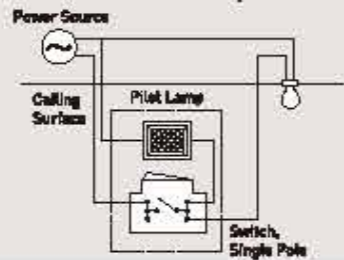
Example of Switches  
 W60004-S

Wiring Instructions(Combination with Pilot Lamp)

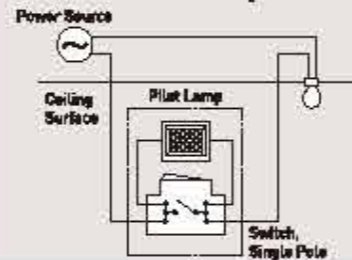
Pilot Lamp Location Indicator



Switch On/Pilot Lamp On

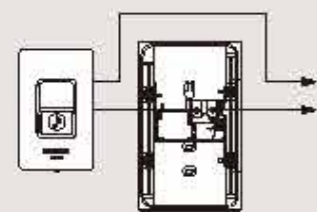


Switch Off/Pilot Lamp On



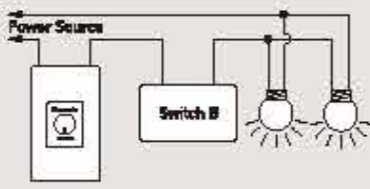
Door Chime

D60301/D60302/D60303



Dimmer Unit

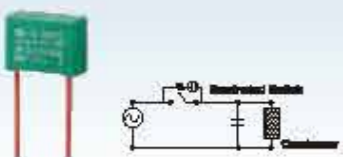
W60670101 W60670200  
 W60670101 W60670200



Accessories

W609986

Capacitor Unit for Illuminated Switch  
 300V-0.1μ F

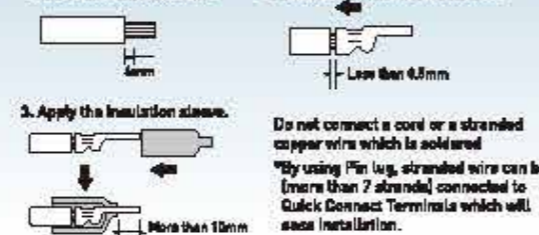


WV2501

Pin Lug  
 (for 2-3.3mm² wire)

Pin Lug Installation

- Strip back covering 6 mm.
- Apply the terminal and punch it.
- Apply the insulation sleeve.



Do not connect a core or a stranded copper wire which is soldered.  
 \*By using Pin lug, stranded wire can be (more than 7 strands) connected to Quick Connect Terminals which will ease installation.

Easy Installation(W602400S/W602400H/W602400A/W602400AH)

**1 2Way Connection**

**Toolless** Wire Connection by Using Caplip  
 • Use tool when connecting wires 0.65mm  
 • Cut the excess wires with nippers after connection

**Using Wiring Tool**  
 • Excess wires can be cut with the blade edge of the tool

**2 Easy to Remove the Cap**  
 • After connecting the core wires, press the cap down until you hear a click.

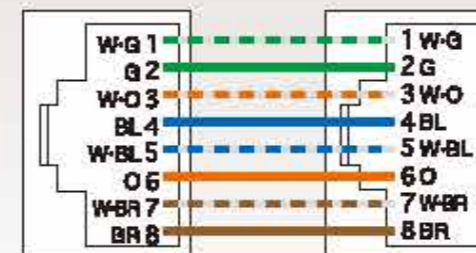
**3 Cable Fixing System**  
 • Fix the cable steadily during installation.  
 • Prevent overpeeling of the Sheath of the cable to avoid failures/malfunctions

**4 No Need to Untwist the Wires**  
 • No need to untwist the wires on setting to the slots.  
 • Minimum untwisting makes uniform installation quality & transmission performance.

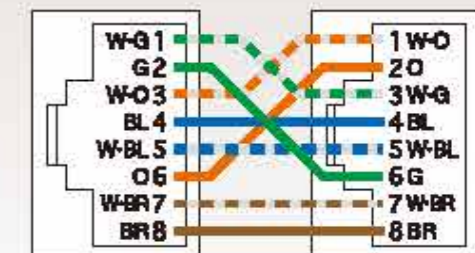
Pin/Pair Assignment

Pair No.	T568A		T568B	
	W	BL	W	BL
①	W-BL	BL	W	BL
②	W-O	O	W	O
③	W-G	G	W	G
④	W-BR	BR	W	BR

Straight Connection with T568A



Cross Connection for 10BASE-T/100BASE-TX



T I S T I L D C K

M E T H O D S O F W I R I N G

S T R U C T U R E O F W I R I N G C O M P O N E N T S

D I M E N S I O N S

T I S T I L D C K

M E T H O D S O F W I R I N G

S T R U C T U R E O F W I R I N G C O M P O N E N T S

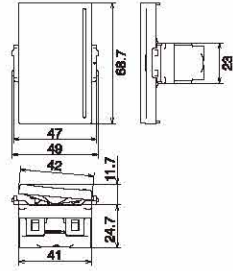
D I M E N S I O N S

# DIMENSIONS

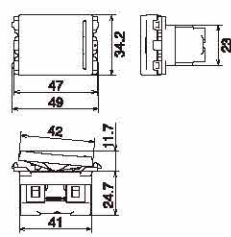
## SLIM ART SERIES

Unit: mm

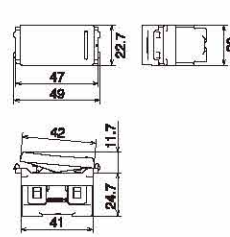
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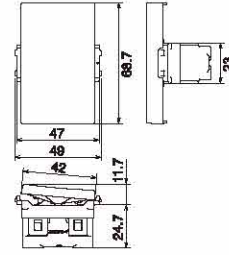
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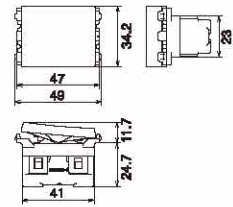
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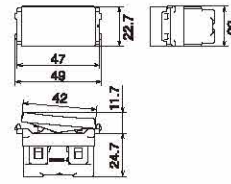
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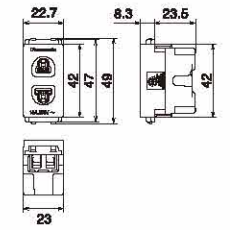
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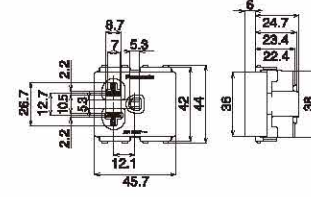
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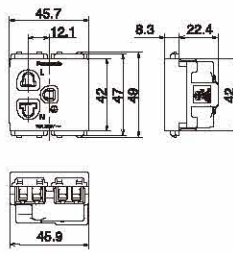
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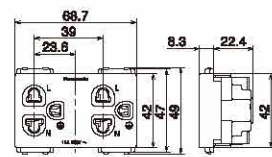
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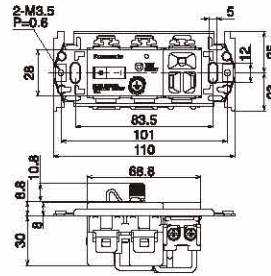
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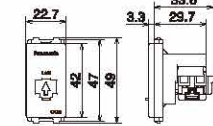
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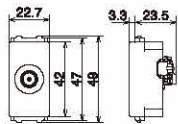
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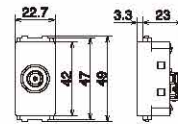
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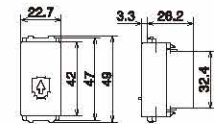
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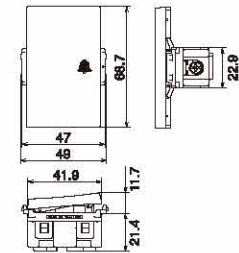
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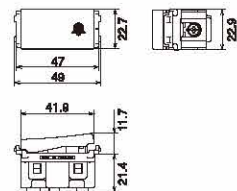
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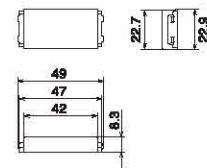
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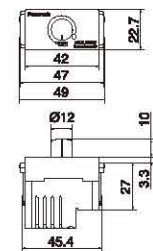
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WSAG3020



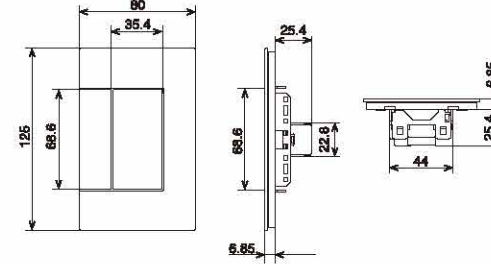
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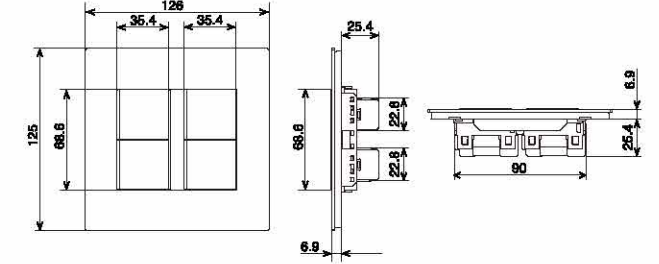
## FLATIMA SERIES

Unit: mm

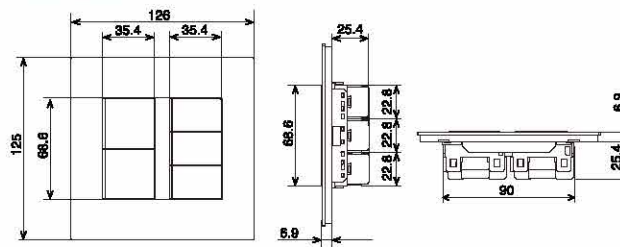
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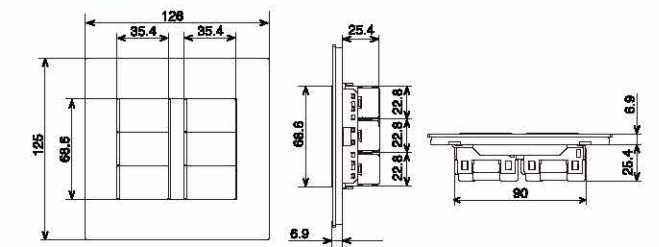
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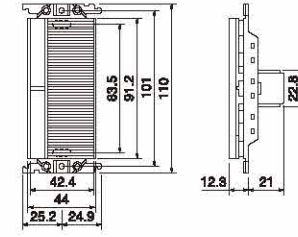


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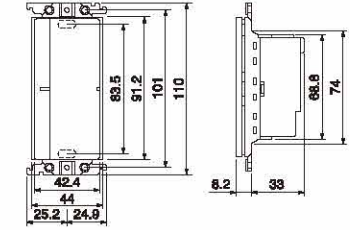


## COSMO ART SERIES

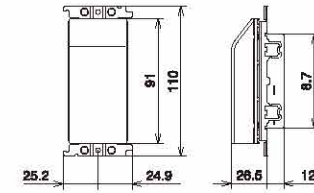
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WTC5631WK-8

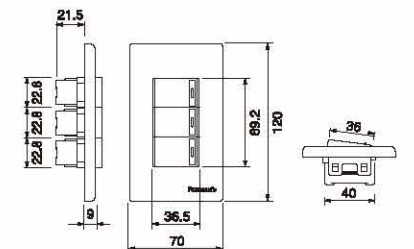
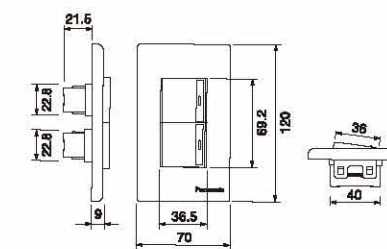
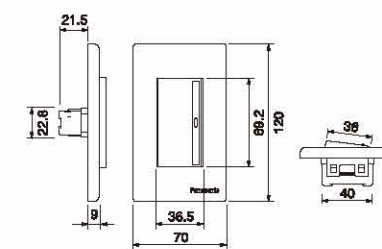


WTNG4101W  
WTNG4102W



\*For receptacles & accessories please see FULL-COLOR WIDE SERIES.

## FULL-COLOR WIDE SERIES REFINA



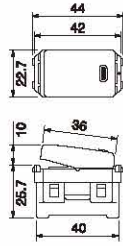


# DIMENSIONS

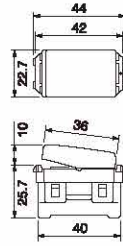
## FULL-COLOR WIDE SERIES

Unit: mm

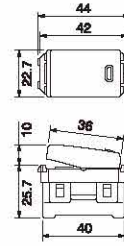
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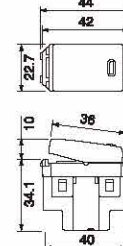
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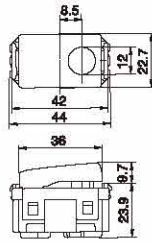
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WE05341



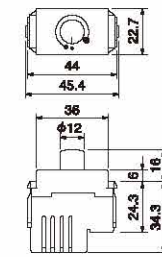
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WE05401-7



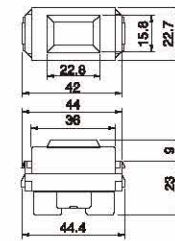
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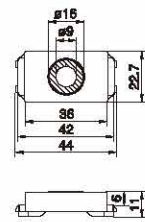
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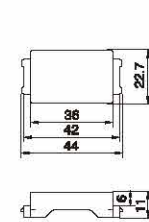
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WEG3032R (Red)  
WEG3032G (Green)



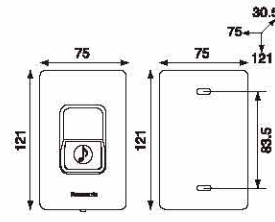
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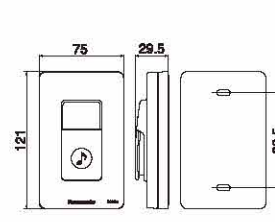
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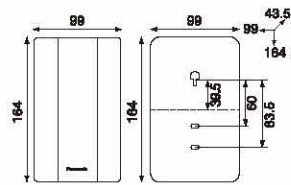
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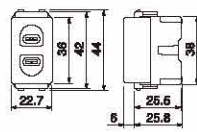
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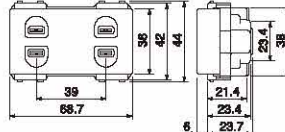
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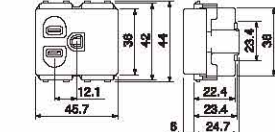
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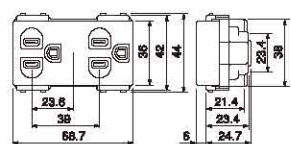
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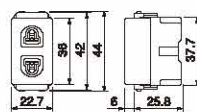
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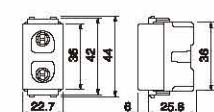
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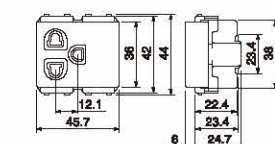
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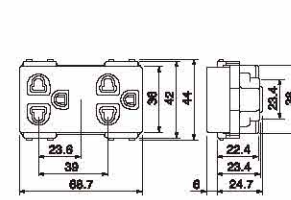
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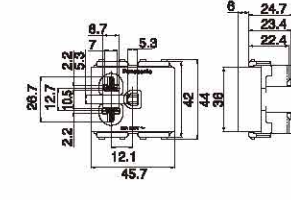
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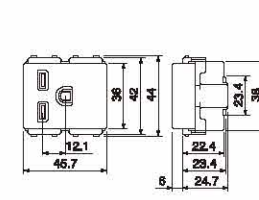
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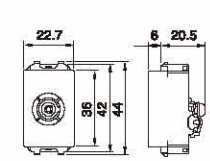
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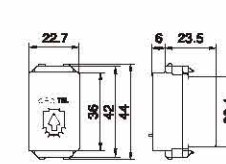


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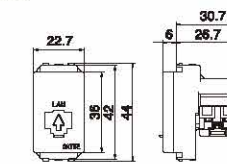


Unit: mm

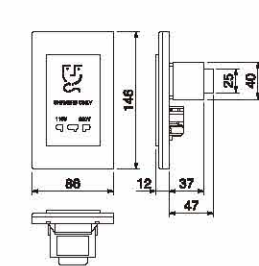
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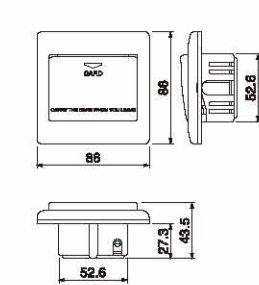
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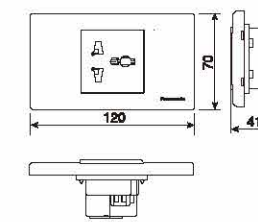
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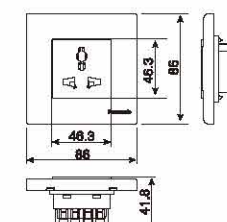
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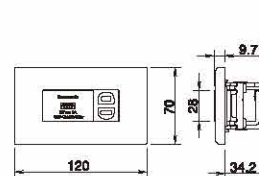
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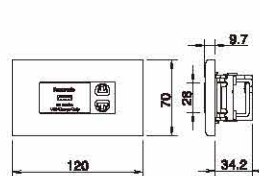
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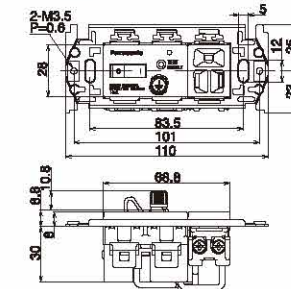
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WEGP17712W



WEGP1741W-P



TWIST LOCK

METHODS OF WIRING

STRUCTURE OF WIRING COMPONENTS

DIMENSIONS

TWIST LOCK

METHODS OF WIRING

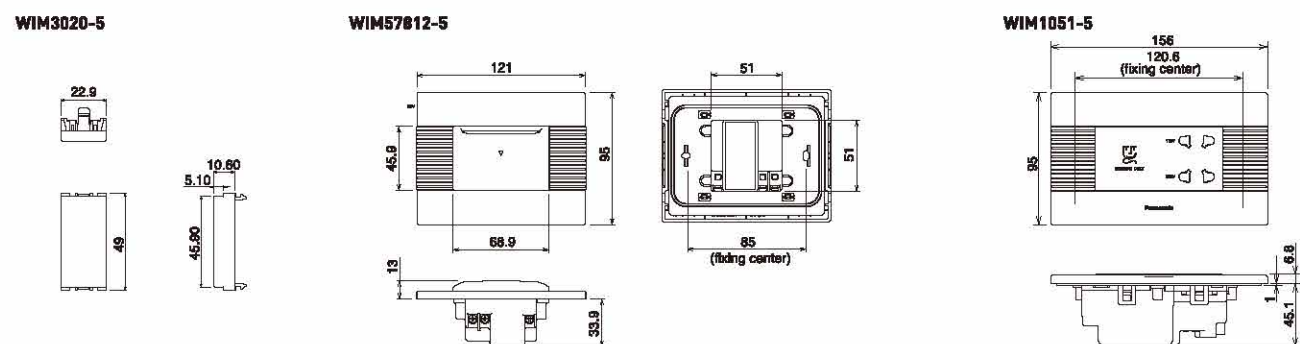
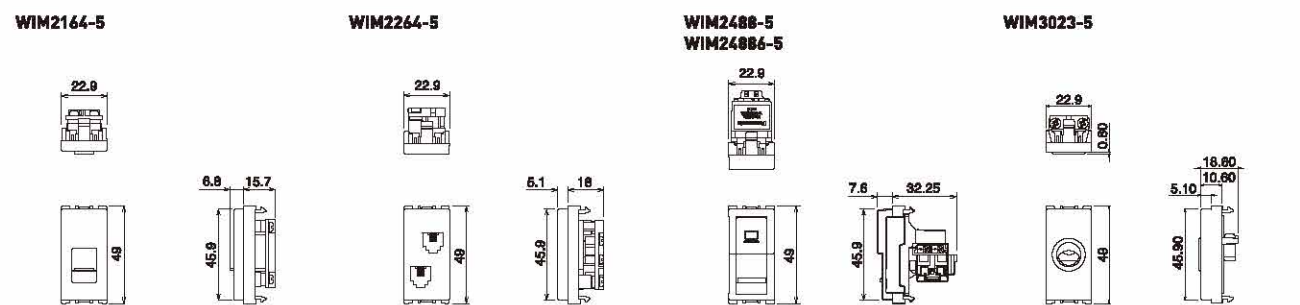
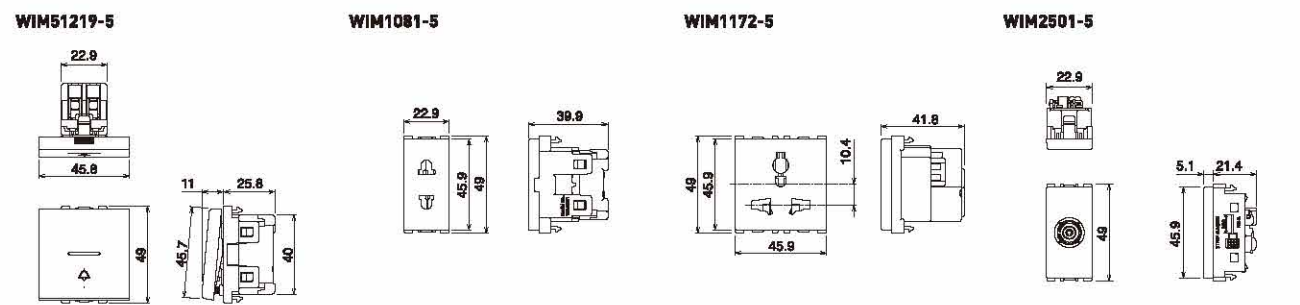
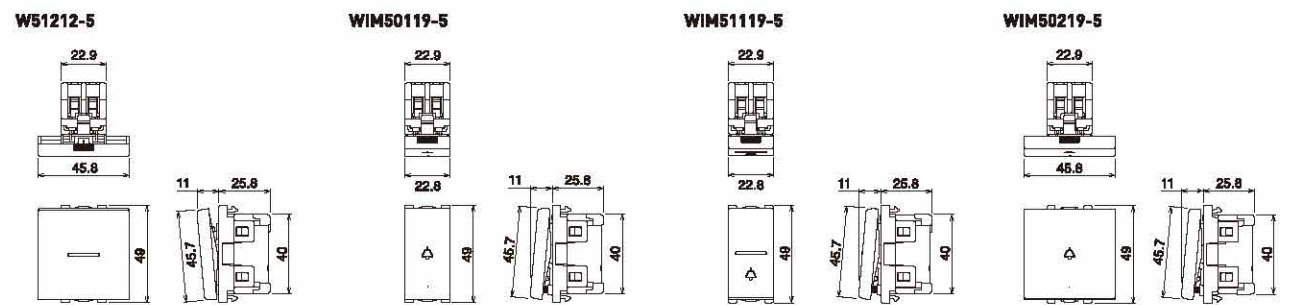
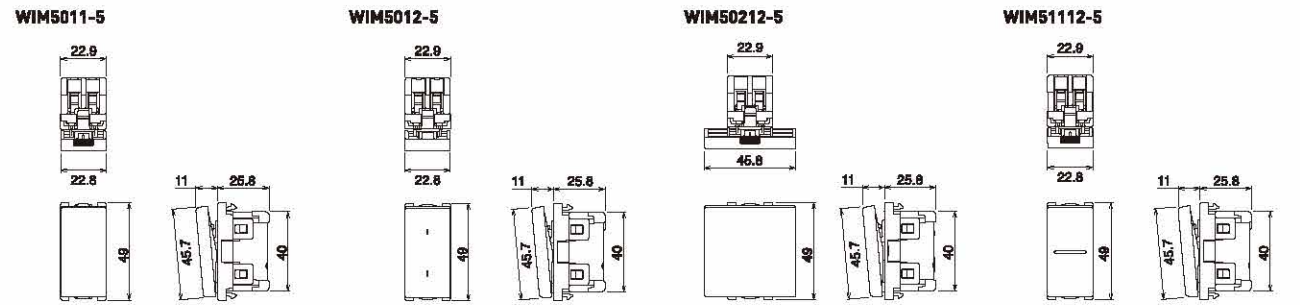
STRUCTURE OF WIRING COMPONENTS

DIMENSIONS

# DIMENSIONS

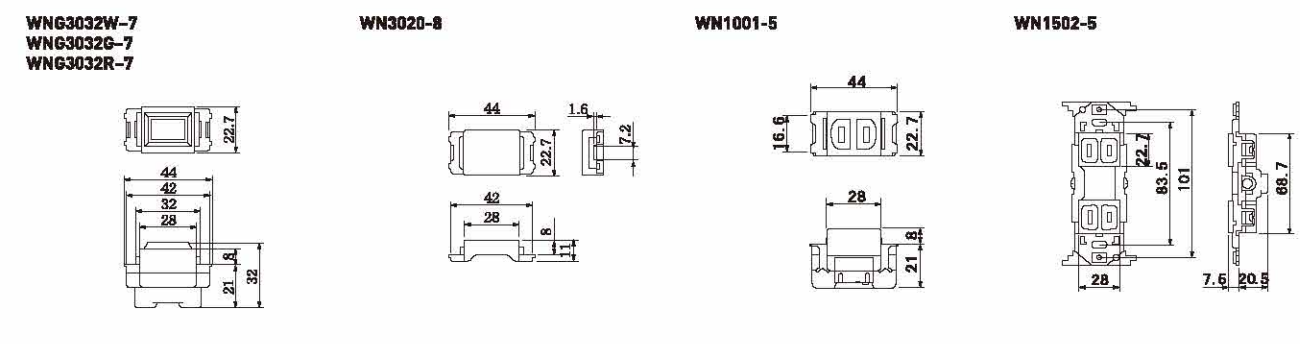
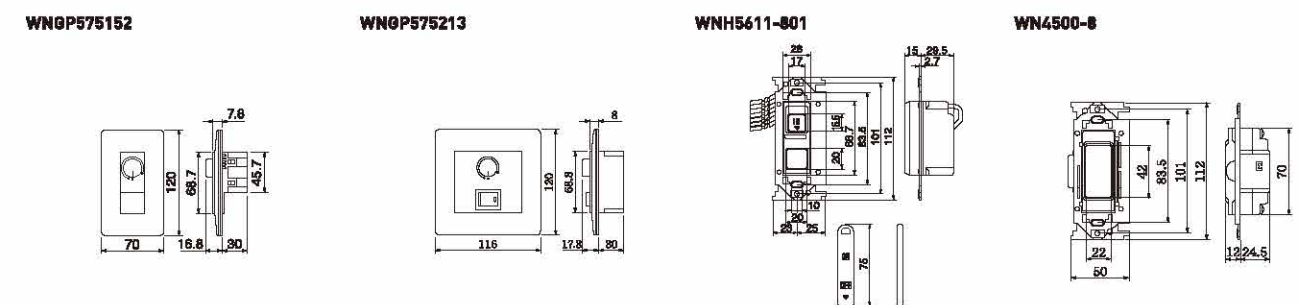
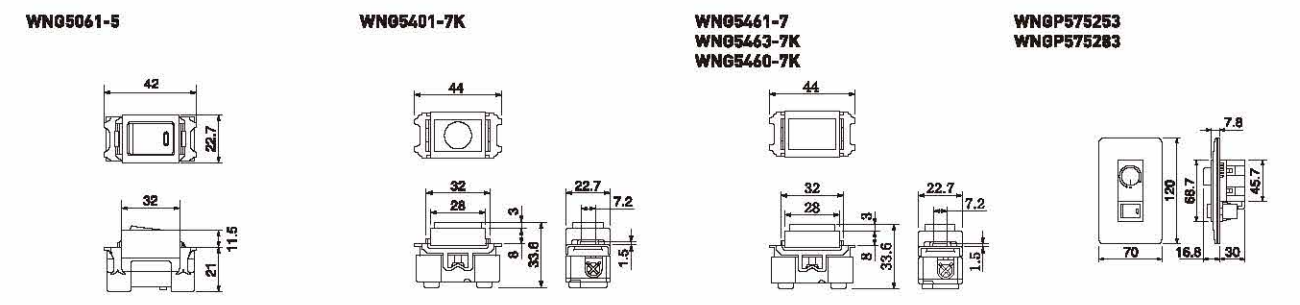
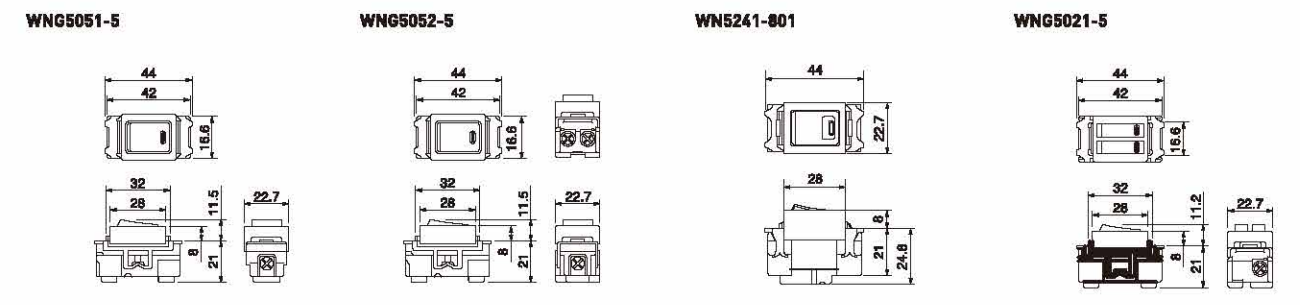
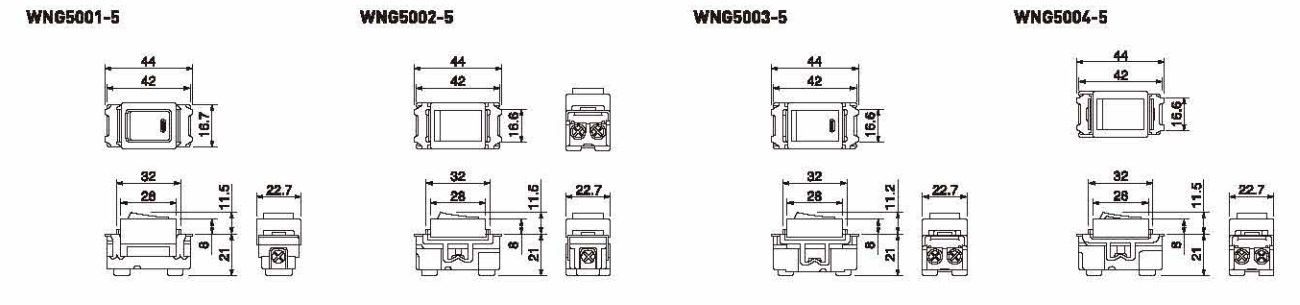
## V-HOTEL SERIES

Unit:mm



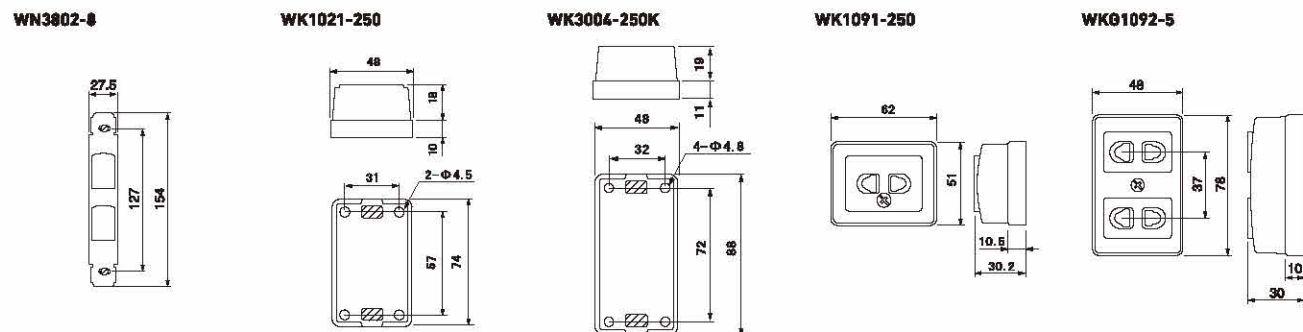
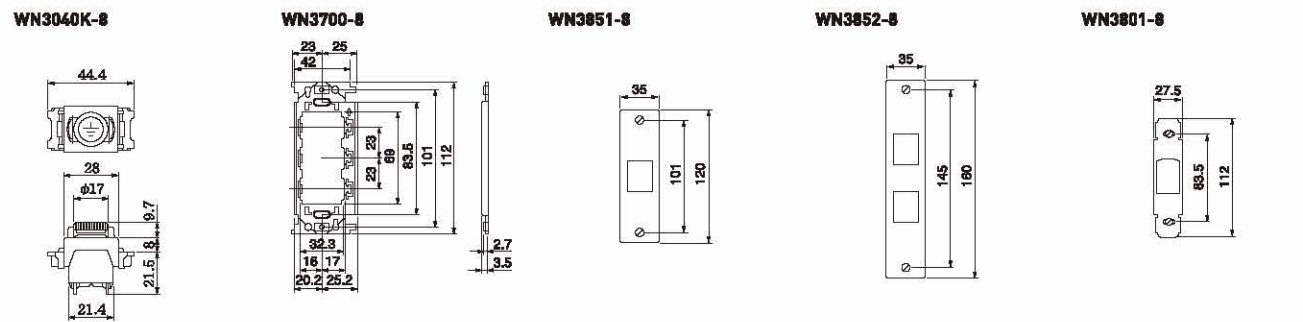
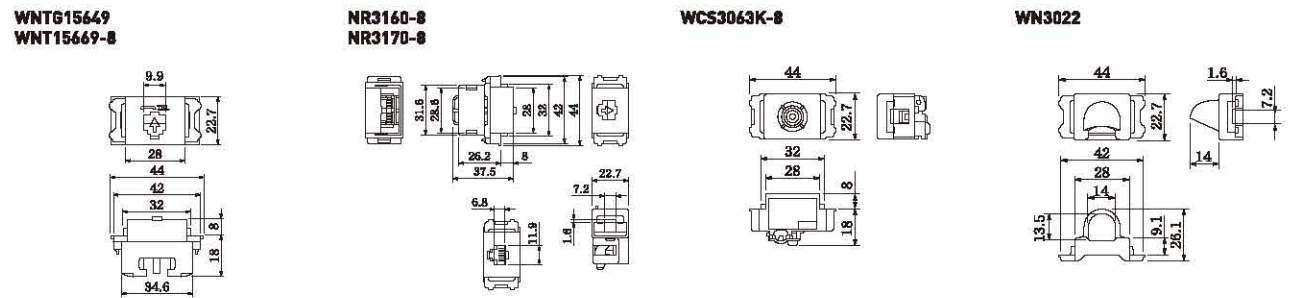
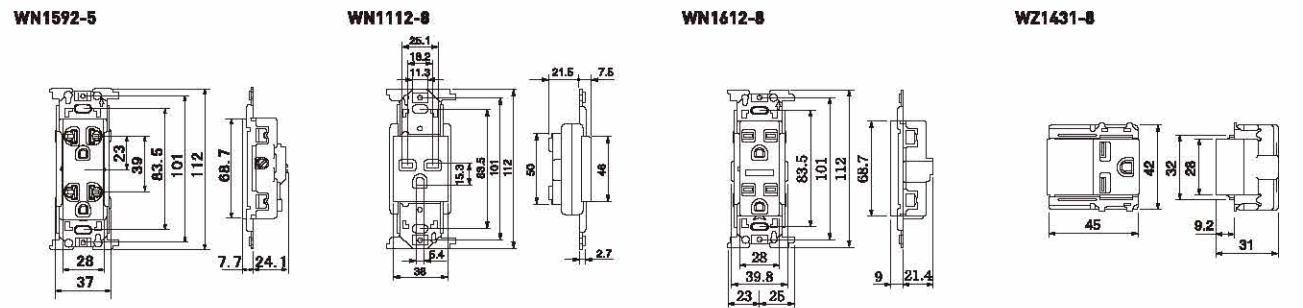
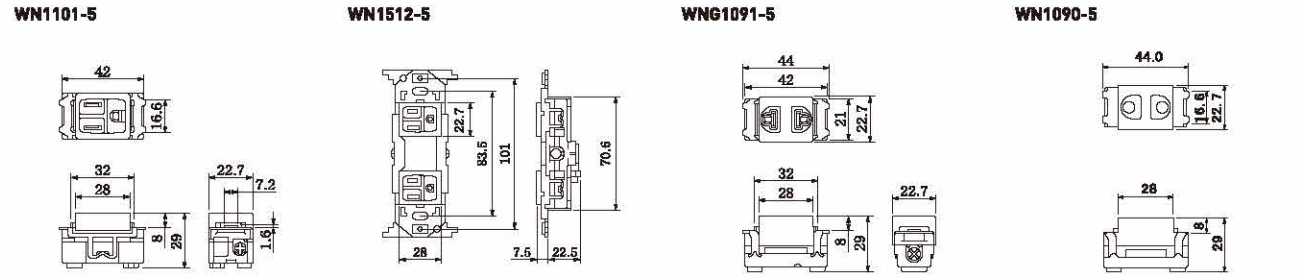
## FULL-COLOR SERIES

Unit:mm



# DIMENSIONS

Unit: mm



High safety that it comply with Thai industrial standard (TIS) and civilized design in Japan.

## EXTENSION CORD with Safety Shutter & Breaker



**5M CORD LENGTH**

**CERTIFIED Product Safety License No.Q-1169**

**Flexible Cord Terminal**  
Is able to distort 10,000 times at 45 angles and 100 times at 60 N to protect copper inside from being twisted.

**Glow Switch**  
Durable built in switch for Power ON Indication.

**Switch Cover**  
Embedded style switch with cover to protect from unintended switching

**Box Cover**  
Made of ABS Resin which is heat resistant UI 94 std., is sturdy and durable

**ABS Resin**

**Round Pin Type Receptacle with Shutter&Ground**  

- Copper clad is produced by piece to piece, without connecting point. That leads to be a good conductor
- Receptacle is made of Urea Resin. Urea Resin property are sturdy, high heat resistant and inflammable
- Durable socket can be plugged in more than 10,000 times
- Twin Safety Shutter springs prevent electric shock [Shutter will not open unless both are pressed]. Easy to plug in both Flat pin type, even with heavy weight.

**Highly Insulated Flexible Wire**  
1.5 mm<sup>2</sup> PVC type flexible wire with thick insulation.

**Full Rating**  
Total electric power which can applied to this product is 3,500 watts, 16A/250V

**Safe Connection**  

- Flat pin with Grounding type of plug.
- High strength material cannot be easily deformed by frequent plugging.

**Circuit Breaker**  

- Electric can be cut off automatically when overload of electric power (white button will protrude instantly)
- Easy to re-preform by pressing the circuit breaker (No need any replaced fuse)
- Circuit breaker is designed to be underneath to protect from accidental touch.

**NO FUSE**

### Specification

- Electrical outlet conform with IEC 60884-1 which be able to plug insert at least 10,000 strokes
- Full rating 16A 250V, 3,500 watts
- 3 main plug in, 1.5 mm<sup>2</sup> wire size for 16A 250V with 5 m of wire length
- Circuit Breaker can cut electric off automatically when overload of 3,500 watts and re-perform easily by press the reset button [After adjust to proper electric power]
- Switch with glow status, endurable and can be on/off for over 40,000 strokes

### WCHG 28534-5

Extension Cord (3 Sockets)



### WCHG 28552-5

Extension Cord (5 Sockets)



TWIST LOCK

METHODS OF WIRING

STRUCTURE OF WIRING COMPONENTS

DIMENSIONS

EXTENSION CORD

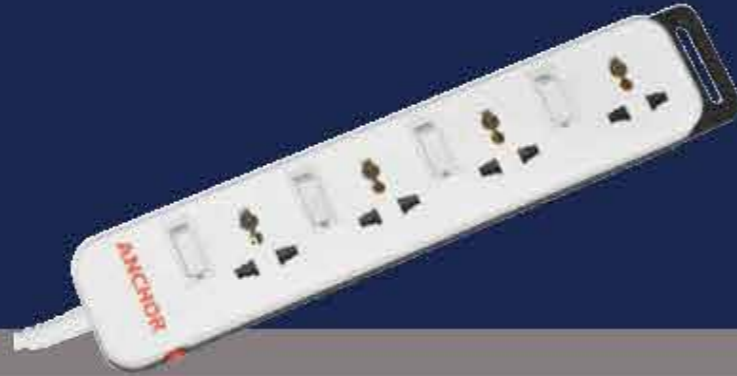
SPIKE GUARD

FLOOR OUTLET SERIES

PASSIVE INFRARED SENSOR

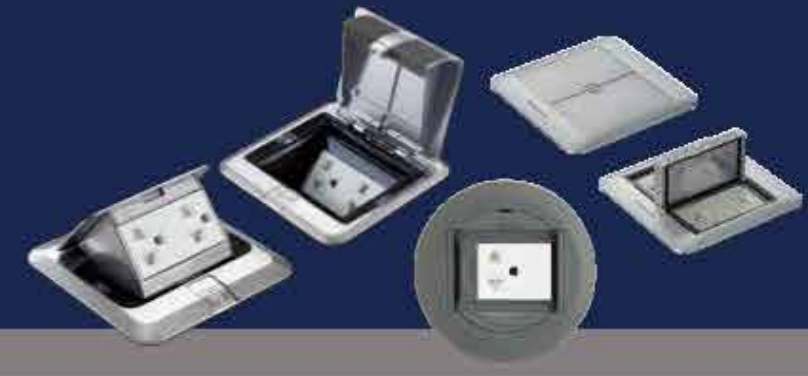
Protects valuable electronic equipment  
from sudden voltage spikes

## SPIKE GUARD



Nice Appearance and Safety Design  
for Floor Management.

## FLOOR OUTLET SERIES



### 6A, 250V~

**NEW**

#### Features

- Stylish New Design
- Overload Protection
- Voltage Surge Protection
- Moulded Plug conforming to ISI Requirements

- Wire: 1.5m, 3 Core insulated wire with ISI Mark
- Versatile Socket compatible with multiple plug
- Special Slot to hang the product vertically.

#### 22706-5

Description - 4 Sockets  
with Single Switch  
with Indicator



#### 22692-5

Description - 4 Sockets  
with Individual Switch



### 10A, 250V~

**NEW**

#### Features

- Auto Resettable over load protection
- Voltage Surge Protection
- EMI/RFI Noise filter

#### 22648-5

4 Universal  
Socket with Single  
Switch and Indicator



#### 22660-5

4 Universal Socket  
with Individual  
Switch and Indicator



### Floor Outlet Double Duplex IP44

**NEW**

#### DUMF# (3280LT-1)

Grounding Duplex Universal with Safety Shutter  
16AX 250V (2pc)  
with Outlet Box & Box Protector



#### DUMF# (3255LT-1)

CAT6 Modular Jack (4pc)  
with Outlet Box & Box Protector



#### DUMF# (3266LT-1)

CAT6 Modular Jack (4pc)  
with Outlet Box & Box Protector



#### DUMF# (3235LT-1)

Telephone Modular Jack 6P4C (2pc)  
and CAT6 Modular Jack (2pc)  
with Outlet Box & Box Protector



#### DUMF# (3236LT-1)

Telephone Modular Jack 6P4C (2pc)  
and CAT6 Modular Jack (2pc)  
with Outlet Box & Box Protector



#### DUMF# (3283LT-1)

Grounding Duplex Universal  
with Safety Shutter 16AX 250V (1pc)  
and Telephone Modular Jack 6P4C (1pc)  
and CAT6 Modular Jack (1pc)  
with Outlet Box & Box Protector



#### DUMF# (3286LT-1)

Grounding Duplex Universal  
with Safety Shutter 16AX 250V (1pc)  
and CAT6 Modular Jack (2pc)  
with Outlet Box & Box Protector



#### DUMF# (3283LT-1)

Grounding Duplex Universal  
with Safety Shutter 16AX 250V (1pc)  
and Telephone Modular Jack 6P4C (2pc)  
with Outlet Box & Box Protector



These products conform to  
Philippine Standards with PS mark.

The product without PS mark is  
exempted model or with ICG sticker.

**ANCHOR** This product is manufactured by Anchor Electricals Pvt. Ltd.  
\*Anchor Electricals Pvt. Ltd. is one company under the Panasonic group.

# FLOOR OUTLET SERIES

## Pop-up Floor Outlet Duplex IP44

**DU5983LT9-1**  
Grounding Duplex Universal with Safety Shutter 16A 250V~ with Outlet Box & Box Protector



**DU5993LT9-1**  
Grounding Duplex Universal 16A 250V~ with Outlet Box & Box Protector



**DU5990LT9-1**  
Grounding Duplex Parallel 16A 250V~ with Outlet Box & Box Protector



**DU6933LT9-1**  
Duplex Telephone Modular Jack 6P4C with Outlet Box & Box Protector



**DU6935LT9-1**  
Telephone Modular Jack 6P4C and CAT5E Modular Jack with Outlet Box & Box Protector



**DU6955LT9-1**  
Duplex CAT5E Modular Jack with Outlet Box & Box Protector



**DU6966LT9-1**  
Duplex CAT6 Modular Jack with Outlet Box & Box Protector



## Floor Outlet (Aluminum Diecast) IP44

**DUF1260LTK-1**  
Grounding Duplex Universal with Safety Shutter 16A 250V~ with Outlet Box & Box Protector



**DUF1270LTK-1**  
Grounding Duplex Universal 16A 250V~ with Outlet Box & Box Protector



**DUF1250LTK-1**  
Grounding Duplex Parallel 16A 250V~ with Outlet Box & Box Protector



**DUF1230LTK-1**  
Triplex Parallel 16A 250V~ with Outlet Box & Box Protector



**DUF2229LTK-1**  
Duplex Telephone Modular Jack 6P4C with Outlet Box & Box Protector



\*Installed Receptacles have PS mark.

**DUF2214LTK-1**  
Telephone Modular Jack 6P4C and CAT5E Modular Jack with Outlet Box & Box Protector



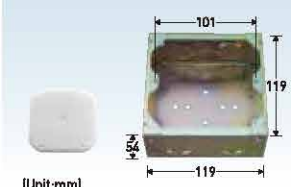
**DUF2259LTK-1**  
Duplex CAT5E Modular Jack with Outlet Box & Box Protector



**DUF2289LTK-1**  
Duplex CAT6 Modular Jack with Outlet Box & Box Protector

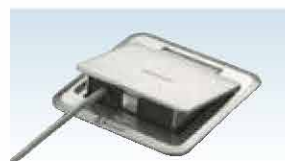


**DU9FALT-1**  
Outlet Box and Box Protector for Floor Outlet (Aluminum Diecast)



[Unit:mm] \*Box protector and screws included.

### Safety



Safety constructed conforming to the IEC 60884-1  
This product conforms the water and dust protection level **IP44** (IEC60529) by the cover are closed.

**IP44** Harmful ingress of water ; **Level 4**  
Protection against liquid spills (No damage by water splash from any direction)

Harmful ingress of solid obstacles ; **Level 4**  
Protection against substance bigger than 1.0mm.  
(Hard to enter substances such as cable, cloth, paper, board pieces)

## Floor Outlet Single IP24

**DU8102HTC-1**  
Grounding Universal with Safety Shutter 16A 250V~ with Cover Unit



**DU5100HTC-1**  
Duplex Parallel 16A 250V~ with Cover Unit



**DU5102HTC-1**  
Grounding Single Parallel 16A 250V~ with Cover Unit



**DU61233HTC-1**  
Duplex Telephone Modular Jack 6P4C with Cover Unit



**DU61223HTC-1**  
Telephone Modular Jack 6P4C and TV Terminal with Cover Unit



## Floor Outlet Duplex

**DU81831HTK-1**  
Grounding Duplex Universal with Safety Shutter 16A 250V~ with Outlet Box & Box Protector



**DU81931HTK-1**  
Grounding Duplex Universal 16A 250V~ with Outlet Box & Box Protector



**DU51031HTK-1**  
Grounding Duplex Parallel 16A 250V~ with Outlet Box & Box Protector



**DU51081HTK-1**  
Triplex Parallel 16A 250V~ with Outlet Box & Box Protector



**DU612331HTK-1**  
Duplex Telephone Modular Jack 6P4C with Outlet Box & Box Protector



**DU612351HTK-1**  
Telephone Modular Jack 6P4C and CAT5E Modular Jack with Outlet Box & Box Protector



**DU61355HTK-1**  
Duplex CAT5E Modular Jack with Outlet Box & Box Protector



**DU61466HTK-1**  
Duplex CAT6 Modular Jack with Outlet Box & Box Protector



**DU9FPLT-1**  
Outlet Box and Box Protector for Floor Outlet Duplex



[Unit:mm] \*Box protector and screws included.

# FLOOR OUTLET SERIES

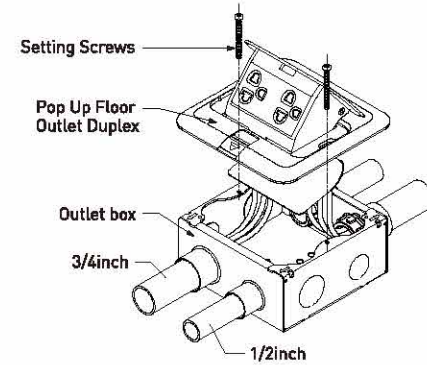
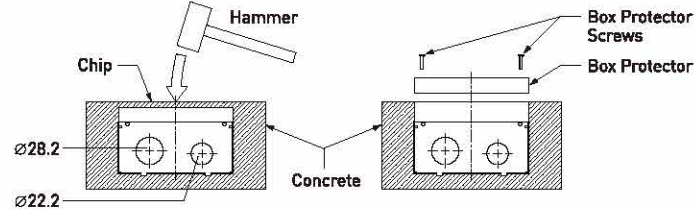
## How To Mount

### Floor Outlet Duplex

After putting the concrete on, make the hole to install the product.

(1) Hammer the center part of where the box is installed and make the hole for installation.

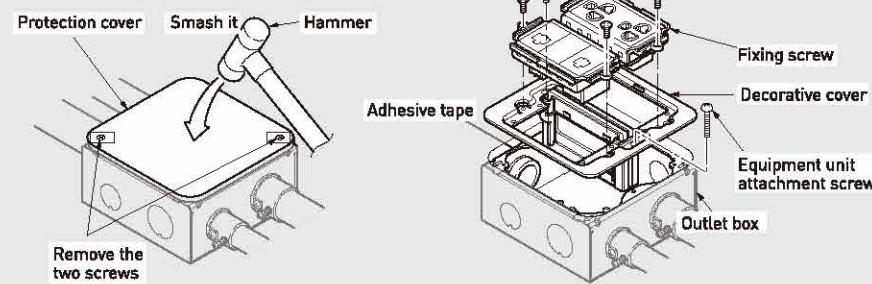
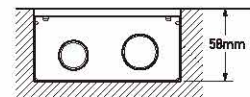
(2) After chipping the concrete away, loosen cover unit screws and take the box protector off.



### Floor Outlet Double Duplex

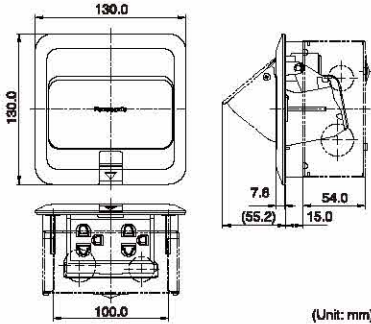
The upper surface of the protection cover must be the finished surface of the concrete.

Smash the protection cover and remove the screws



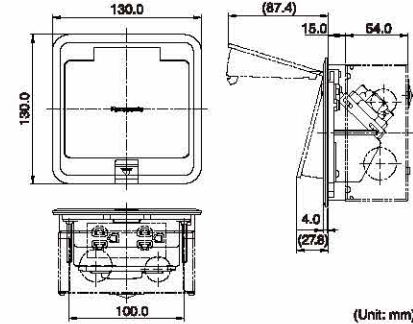
## Dimensions

### Pop Up Floor Outlet Duplex



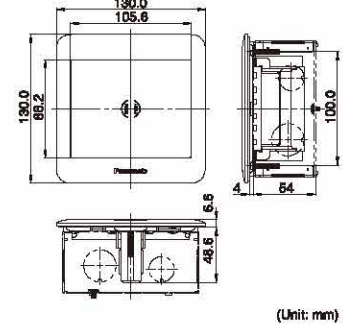
(Unit: mm)

### Floor Outlet (Aluminum Diecast)



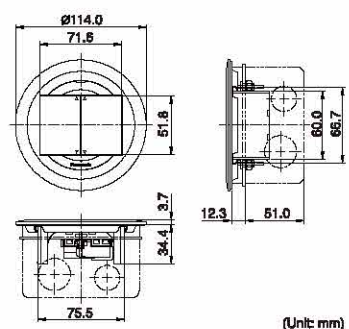
(Unit: mm)

### Floor Outlet Double Duplex



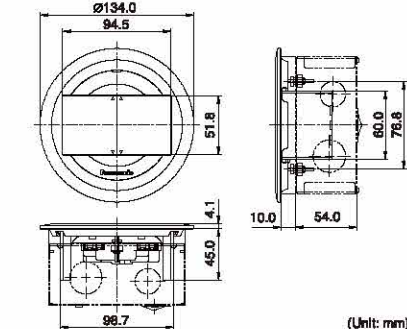
(Unit: mm)

### Floor Outlet Single



(Unit: mm)

### Floor Outlet Duplex



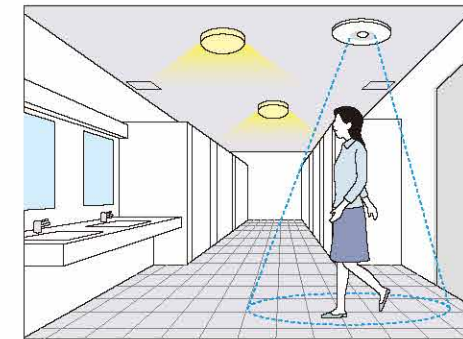
(Unit: mm)

New innovation with  
New energy-saving lighting control.

## PASSIVE INFRARED SENSOR

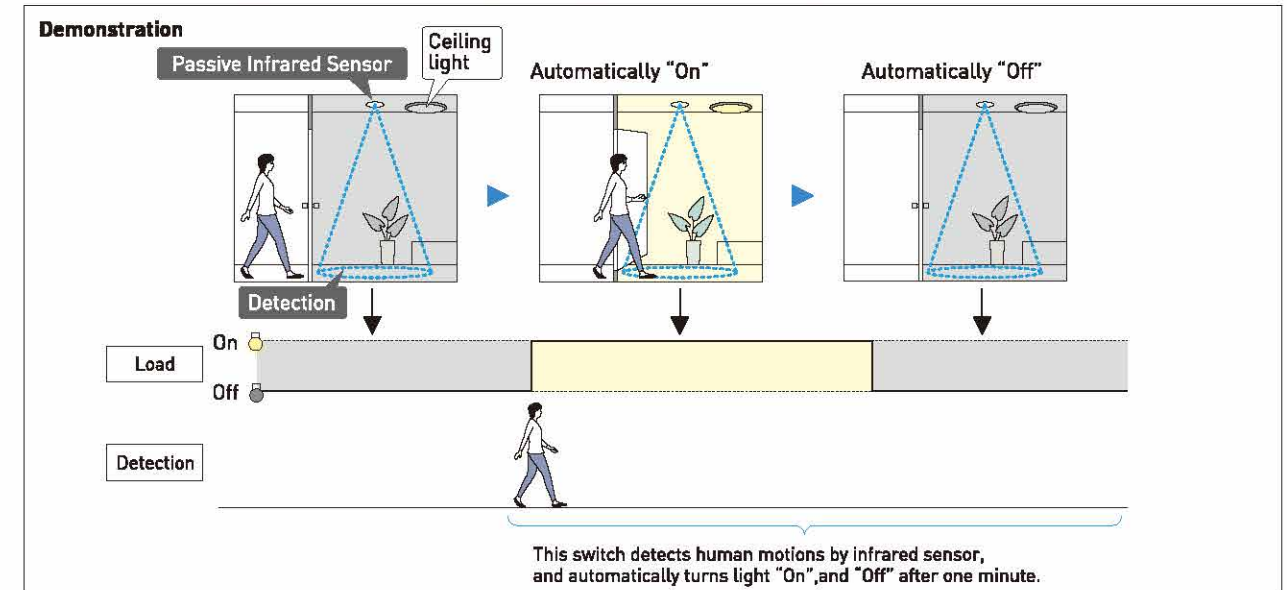


## Looks Slim with The Compact Plate



FULL-COLOR  
**WIDE**  
SERIES

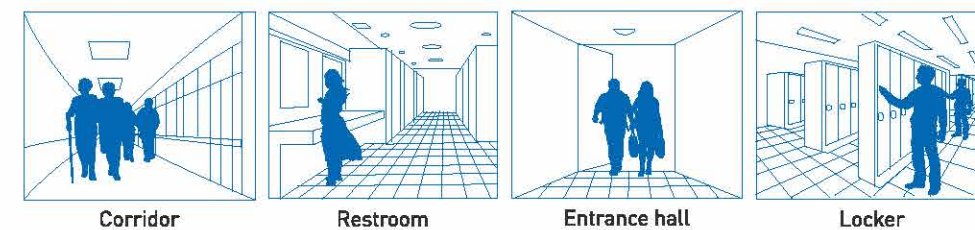
## Saves Energy Preventing Forgotten on Lights



### Features

- 1) High sensitive detection with sensor
- 2) Long life 100,000 On/Off
- 3) Safety and Easy with Quick Connect Terminal
- 4) Stand by power consumption less than 2W

### Applicable locations :



## Stand-alone Type

### WTKG2310

Passive Infrared Sensor  
(Ceiling Flush Mount Type)  
3A 220-240V-  
1 min Time Delay



## Surface Type

### WTKG2311

Passive Infrared Sensor  
(Ceiling Surface Mount Type)  
3A 220-240V-  
10 sec-30 mins. Time Delay  
Day Light Sensor



**Quick Connect Terminal II**  
Solid Wire : 1.5-2.5mm<sup>2</sup>  
Standed Wire : 1.5-2.5mm<sup>2</sup>

## Specifications

Model no.	WTKG2310	WTKG2311
Detectable scope		<p>Adjusting method of detection area Can adjust the detection area</p> <p>Angle adjustment (Maximum 15°)</p> <p>Turn the lens to the area which you want to detect (Maximum 360°)</p> <p>Wiring connection</p>
Supplementary of Detect scope by hood	None	
Dimension	<p>φ 85 × 12 + 58.8 (L=70.8mm)</p>	<p>φ 120 × 33.5 + 17 (L=50.5mm)</p>
Rating	3A 220-240V -	
Rated Power Consumption	Less than 2W	
Load Capacity	Incandescent Lamp 660W Fluorescent Lamp 330W	
Applicable Standard	IEC60669-2-1	
Ambient Temperature	-10°C to +40°C	
Wiring Connection	Quick Connect Terminal	
Size of Installation Hole (cm)	7.0 (+0.5)	7.2 (+0.5)
Applicable Wire	1.5mm <sup>2</sup> - 2.5mm <sup>2</sup> Rigid Copper Wire Only	
Applicable Boxes	Square Box 2 inch or more Octagon Box 2 inch or more	1.5 inch or more 1.5 inch or more
Time-Out Delay	Fixed 1min	Adjustable 10 sec. - 30 min
Detectable Movement Speed	0.3 m/s - 1.0m/s	

## Interconnectable Type

### WTKG2411

Passive Infrared Sensor  
(Master Unit)  
3A 220-240V-



Master

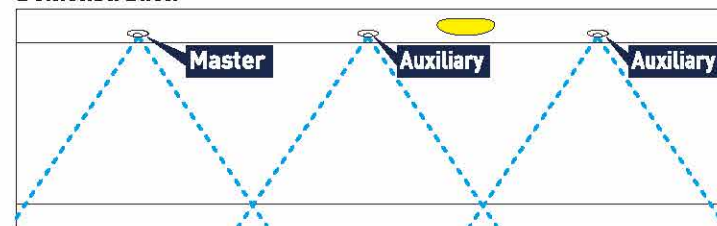
### WTKG2911

Passive Infrared Sensor  
(Auxiliary Unit)  
DC12V



Auxiliary

## Demonstration



[ up to 4 auxiliary units can be connected with 1 master unit ]

Available in a wide variety of models  
to suit a multitude of environmental and weather conditions.

## AUTOMATIC TIME SWITCH



## What's an Automatic Time Switch?

An automatic time switch automatically controls the use of electricity according to time. It's a device that lowers both electrical and labour costs.

### Automatically Turns the Power On and Off

The Time Switch combines a clock with a switch to automatically turn power on or off at preset times. It is generally built into a lightboard or distribution panel, and controls electricity on a 24-hour or weekly basis. It makes it possible to replace conventional manual control with automated, reliable ON/OFF time management.

### Simply Set the Time for ON/OFF Control

Time management consists of simply setting the times to turn the power on and off. A wide range of uses are possible across various operations, such as lighting, air conditioning, water supply, and livestock feeding.

#### Example: Managing electricity in the office

**From 8:30 AM to 12:00 AM**  
Turn the power on at the start of the workday. Lighting and air conditioning are turned on to provide a smooth start to office work.

**From 0:00 PM to 1:00 PM**  
Lunchtime. Lighting and air conditioning are turned off while people leave the office for lunch. No power is wasted.

**From 1:00 PM to 6:00 PM**  
Lighting and air conditioning are turned on precisely when lunchtime ends. Then the power is automatically turned off when the workday finishes. Again, no power is wasted.

### Eliminating Electrical Waste Is Also Ecological

Because the power is reliably turned on and off according to a preset time schedule, the amount that was wasted by extended use is saved, and electric bills are effectively lowered.

### Cutting Labour Costs Is Also Efficient

Since the job of turning the power on and off is done automatically instead of manually, you can assign your valuable human resources to more important jobs. Human error is also eliminated, so power management is more reliable.



# AUTOMATIC TIME SWITCH

## Uses and Advantages of Panasonic Time Switch

Panasonic, with almost 100 years of expertise forged in the Electrical Construction Material field with its Wiring Devices series, has also established a name for itself in the Time Control Devices market during the past 50 years with its Automatic Time Switch.

### Thorough Quality Control

In addition to advanced functions, Panasonic focuses its manufacturing efforts on providing high durability and performance for many years of reliable use, and selects materials with full consideration of the global environment. Certification by third-party institutions and compliance with a wide range of international standards attest to these efforts. This approach is also used with Panasonic's Automatic Time Switches, to allow our customers worldwide to experience a new level of comfort and safety for the control of electric equipment.

### Meeting IEC Standards

Panasonic's product design has been recognised and certified by many international organizations worldwide, such as the IEC (International Electrotechnical Commission), the top reference for electrical and electronic safety standards. Our Automatic Time Switch has successfully passed and complies with the IEC730-2-7 directives to provide safer and more comfortable use of our line-up to our customers.



### Products Compliant with the RoHS Directive

Panasonic's manufacturing processes are based on management standards for chemical substances by complying with the EU RoHS directive in order to provide all of our customers safer products with less impact on the environment.



## Example of Use

### Example 1 Factories

Time Switches are at work in a wide variety of applications, including production lines, air conditioning systems, and lighting equipment.



### Example 2 Public Infrastructure

The number of people in towns and cities varies depending on the time of day. Time Switches enable waste-free management of lighting and other equipment.



### Example 3 Offices, Residences and Commercial Facilities

Time Switches can be used to save electricity during the times when lighting and air conditioning are not needed, like at lunchtime and late at night.



### Example 4 Agriculture and Livestock

Time Switches can be used to automatically supply food and water at appropriate times each day, to increase working efficiency.



## Unique Features Designed to Meet Precise Needs

Detailed consideration is given to users in the form of functions that are helpful in ordinary usage, and designs that simplify maintenance.

### Easy Operation Check



A power lamp is located on the front panel, so the user can see at a glance whether the unit is operating or not, thus helping to provide safe use.

### Easy Battery Replacement



With conventional time switches, the unit must be removed from its installation location, such as in a distribution panel, to replace the batteries. Panasonic's Time Switch lets you easily replace the batteries from the front panel. This makes maintenance considerably easier.

### Preventing Entry of Ants and Other Small Insects



Time Switches are sometimes subject to the entry of ants and other small insects, which can cause malfunctions. Panasonic Time Switches have a airtight construction that prevents this problem for long, trouble-free use.

### TB35N, TB36N, TB38N, TB39N

**Features (TB35N, TB36N, TB38N, TB39N)**

- A-clear program
- Surface and DIN rail mount
- 200 hours reserve battery (TB38N, 39N)
- Battery exchange from the front side
- 94 operations per day
- Minimum setting interval is 15 minutes

**Dimensions (mm)**

Applicable Installation Type	Indoor Use			
	Daily			
Series	TB35N series	TB36N series	TB38N series	TB39N series
Item No.	TB35N7000 (220-240V AC 60Hz)	TB36N7000 (220-240V AC 60Hz)	TB38N7000 (220-240V AC 50-60Hz)	TB39N7000 (220-240V AC 50-60Hz)
Drive Method	AC Motor		Quartz Motor	
Power Failure Backup Time	Same as AC Frequency		200 hours	
Time Precision	Same as AC Frequency		±15 sec/month (at 25°C)	
Circuit Configuration	Same Circuit	Separate Circuit	Same Circuit	Separate Circuit
Switch Construction	Single Pole, Single Throw (1x Contact)	Single Pole, Double Throw (1x Contact)	Single Pole, Single Throw (1x Contact)	Single Pole, Double Throw (1x Contact)
Load Capacity	Resistive Load	200V AC 20A		
	Incandescent Lamp Load	200V AC 10A		
	Inductive Load (cos φ 0.4)	200V AC 12A		
	Motor Load (cos φ 0.4)	200V AC 1000W		
	Minimum Setting Interval	15 minutes		
No. of On/Off Operations	74 operations			

### TB11N, TB17N

**Features (TB11N, TB17N)**

- A-clear program
- 4-bit operation set with expanded plus
- With a manual On/Off switch
- 200 hours reserve battery (TB11N)
- Battery exchange from the front side

**Dimensions (mm)**

Applicable Installation Type	Indoor Use	
	Daily	
Series	TB11N series	TB17N series
Item No.	TB11N7000 (220-240V AC 60Hz)	TB17N7000 (220-240V AC 50-60Hz)
Drive Method	AC Motor	
Power Failure Backup Time	200 hours	
Time Precision	Same as AC Frequency	
Circuit Configuration	Same Circuit	
Switch Construction	Single Pole, Single Throw (1x Contact)	
Load Capacity	Resistive Load	200V AC 10A
	Incandescent Lamp Load	200V AC 5A
	Inductive Load (cos φ 0.4)	200V AC 12A
	Motor Load (cos φ 0.4)	200V AC 1000W
	Minimum Setting Interval	30 minutes
No. of On/Off Operations	Standard 6 operations (Max 48 operations)	

### TB32N, TB38N Steel Box Type

**Features (TB32N, TB38N)**

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- A-clear program
- Surface mount
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	Incandescent Lamp Load	200V AC 10A
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AUTOMATIC TIME SWITCH

MILK BEE

WIRE ALARM

FIRE ALARM SYSTEM

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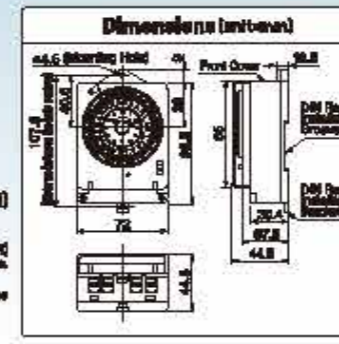


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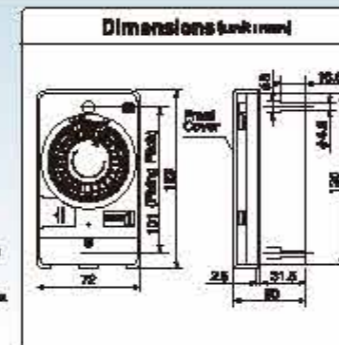


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Power Failure Backup Time	Same as AC Frequency		200 hours	
Time Precision	Same as AC Frequency		±1.5 sec/month (at 25°C)	
Circuit Configuration	Same Circuit	Separate Circuit	Same Circuit	Separate Circuit
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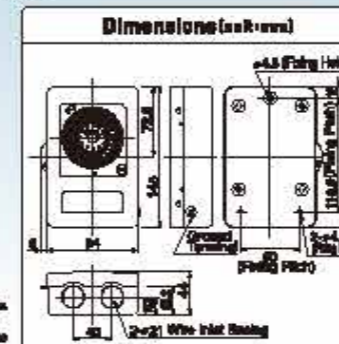


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Item No.	TB11N7000 (220-240V AC 50/60Hz)	TB17N7000 (220-240V AC 50-60Hz)
Drive Method	AC Motor	
Power Failure Backup Time	200 hours	
Time Precision	Same as AC Frequency	
Circuit Configuration	Same Circuit	
Switch Construction	Single Pole, Single Throw (1x Contact)	
Load Capacity	Resistive Load	200V AC 10A
	Incandescent Lamp Load	200V AC 10A
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Provides prompt notification  
in the event of a fire.

## SLIM SMOKE & VOICE ALARM WITH LONG-LIFE-BATTERY



The smartest way  
to fire proof your business

## FIRE ALARM SYSTEM

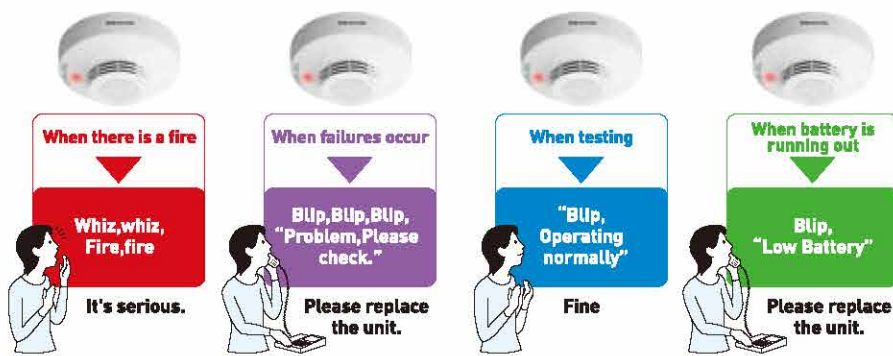


### Rapid indication with a clear "alarm sound" and a "voice" easy to understand.

Approx. 87 dB at 1m distance from equipment  
(at peak value)(measured by our company  
based on corporate judgment standard)  
For alarm sound "Whiz, whiz", a wide frequency  
band from 0.3 kHz to 4.0 kHz is adopted for  
easy catching even by old people and children.



### Immediately understands what happened.



**SH28455911**  
Smoke alarm for residential use



Model No.	SH28455911	
Power Supply	Dedicated Lithium Battery (3V)x1	
Battery Life	Approximately 10 years(*)	
Detecting Method	Smoke Type (Photoelectric Method)	
Class	Type2	
Alarm Sound/ Voice Alarm	Fire	Whiz, whiz, fire, fire!
	Low Battery	"Blip, Low Battery!" x 3 times. "Blip, approx. every 40 seconds after that."
Trouble	Failure	"Blip, blip, blip, Problem, Please check" x 3 times. "Blip, blip, blip, approx. every 40 seconds after that."
	Testing	"Blip, blip, blip, Problem please check"
Alarm Volume	84 dB or more at 1 m distance from equipment	
Dimension	Approx. Ø100 mm x 44 mm (including attachment base)	
Weight (including Dedicated Lithium Battery)	Approx. 140g.	
Operating Temperature	0°C to +50°C	
Installation Location	Ceiling/Wall Surface	

Signal Transmission Contact (No-Voltage)	—		
*It may be shorter depending on usage environment.			
Function	Mode	Voice Alarm	Indication
	Normal	—	OFF
	Alarm	Whiz Whiz Fire Fire	Blink
	Silent	—	OFF
	Trouble #1	Blip, Blip, Blip, Problem please check	Blink
	Trouble (Silent)	—	Blink
	Low Battery #2	Blip, Low Battery	Blink every 8 seconds
Low Battery (Silent)	—	Blink every 8 seconds	

### Choose Panasonic Fire Solutions for A World-Class Protection

With more than 30 years' experience in the development of fire solutions, and installations in over 15,000 buildings, Panasonic provides technology that's designed not just to alert you to the outbreak of fire, but also to pre-warn you of conditions that could lead to fire.



#### Artificial Intelligence

Self Diagnosis based on actual environment and Contamination monitoring which minimizes service maintenance.



#### Eliminates False Alarms

0.3mmØ Detector mesh net prevents entry of foreign objects which triggers nuisance alarms.



#### Live Graphical Interface

Monitoring and disabling control through graphical interface with live camera feeds.



#### Outstanding Reliability

Tested and calibrated each detector twice with real smoke to ensure functionality and optimal performance.



#### EBL512G3

4 COM Loops  
1020 Addresses  
TLON Capable Up to 30 Units  
Multi Master Configuration  
Redundant Network  
Remote Access



#### EBL128

One COM Loop  
255 Addresses  
Remote Access

For your amenity and energy saving.

# FULL-2WAY REMOTE LIGHTING CONTROL SYSTEM



## Simple, Efficient Lighting Control That Matches Your Needs

### ECOLOGY

Energy-saving while Creating an Efficient Lighting Environment

### AMENITY

User-friendly

### SIMPLE

Simple Design and Labor-saving Installation

### CONVENIENCE

Minimal Design, Minimum Maintenance

### FLEXIBILITY

Reduced Total Cost

#### Centralized Monitoring and Control

Control and Monitor All Lighting from a Central Location



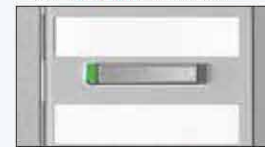
#### Functional Display of Lightning Status

LED Displays Lightning Status

•ON: Red Light Is lit



•OFF: Green Light Is lit



#### Timer and Sensor Control

Connectable with Timer or Sensor Control Equipments for Further Energy Saving



•Program Timer Unit



•Passive Infrared Ceiling Unit



•Daylight Sensor Unit

#### Group Control

Turn **ON** All Lights in The Sales Department

Turn **OFF** All Lights in The Sales Department



All Lights ON

All Lights OFF

#### Pattern Control

9:00 AM  
Work Starts

Noon to 1:00 PM  
Lunch Break

2:00 to 3:00 PM  
Natural Light Come from Outside

6:00 PM  
Work Finish



All Lights ON

Some Lights ON

All Lights OFF

#### Dimmer Control



100%

The bigger the building, the more labor-saving the installation.

#### Direct Control

Common Wiring

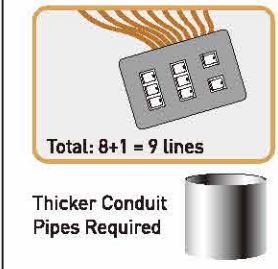
The Switch located between the load and the power source directly turn the power ON/OFF

#### Remote Control

Multiplex Transmission Full-2way Control

The Switch acts as a signal transmitter, sending commands to the Relay to turn ON/OFF

#### Common Wiring Method



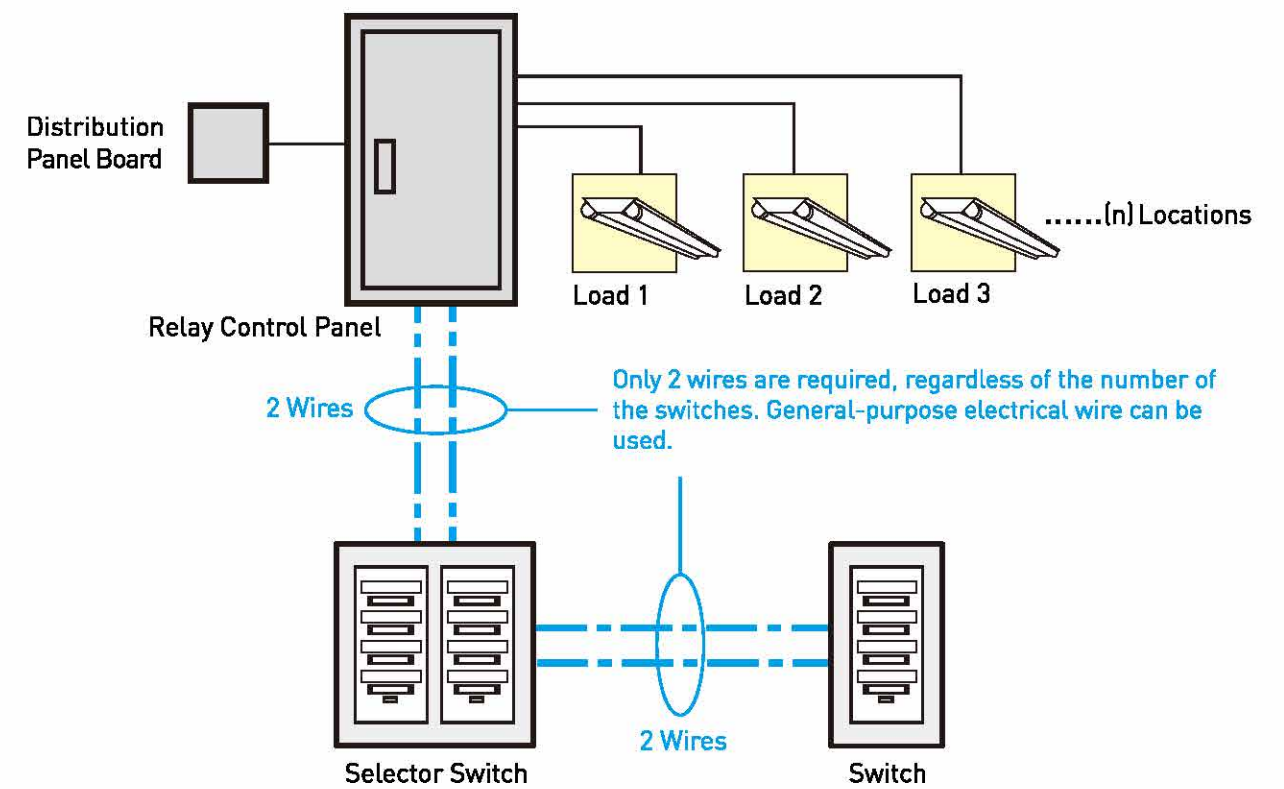
Small Scale Projects

#### Full-2way Remote Control Method Two Signal Wire



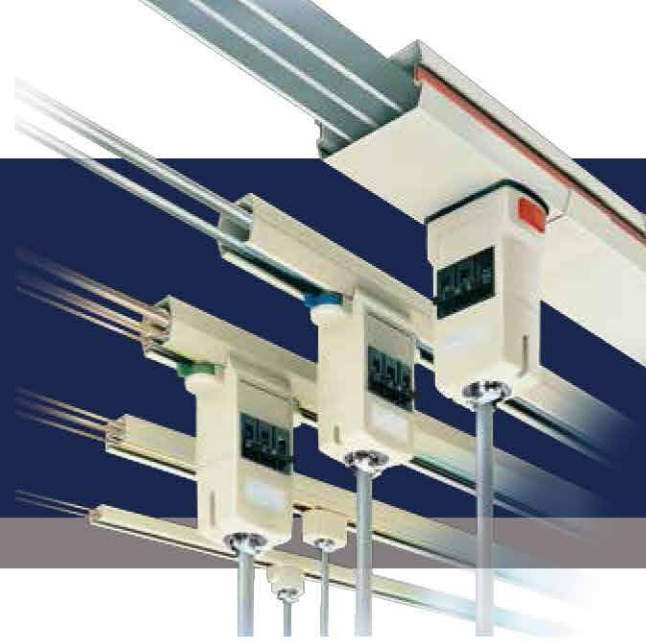
Large Scale Projects

#### Wiring diagram for Full-2way remote control system



Flexible wiring systems for stationary loads. Select from four types according to the capacity you desire, from single-phase 20A to three-phase 100A.

## FACTORY LINE SYSTEMS



### Flexible power supply from the ceiling.

Ceiling wiring systems capable of providing power for lighting & driving. You can change layout simply by reconnecting plugs to the ducts installed at the ceiling — it allows you to reduce time, labor, and cost significantly without major rewiring.

**FLEXIBLE**

Easy to add or move plugs; suitable for environments where layouts are changed frequently

**SAFETY**

No more wire across the floor — it prevents tripping & falling.

**NICE VIEW**

It not only simplifies the wiring & ceiling, but also provides "three-phase and single-phase", or "single-phase two circuits".

**FLEXIBLE**

#### No More Wiring-work After Layout Change



#### Basic advantages

Simple layout change — just re-connect plugs at different positions. You can reduce labor, time & cost.

#### Additional advantages

You can add, reduce & relocate power supply easily. Just pull down lever, and turn the plugs to remove or connect.



Factory Line 100 / 60      Factory Line 30

**SAFETY**

#### No more tripping over & damaging a cable on the floor.

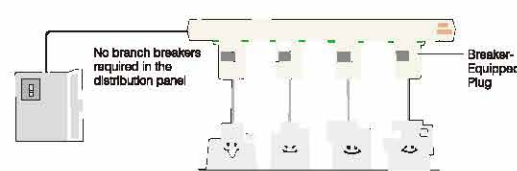


#### Basic advantages

Wiring from the ceiling keeps the floor tidy. Plugs with breakers provide safety.

#### Additional advantages

No need to install breakers with distribution panels — it saves space.



**NICE VIEW**

#### It simplifies wiring & appearance. Effective for productivity improvement.

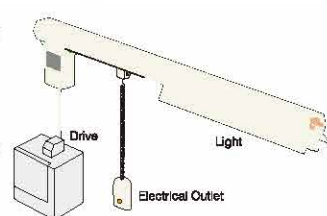


#### Basic advantages

You can keep ceiling & floor tidy, and appeal to visitors during factory tours.

#### Additional advantages

One single duct provides three-phase power supply & single-phase power supply — it allows one duct to supply power for machine-driving, conventional sockets and lighting. Factory Line 100/60 simplifies the entire wiring plan.



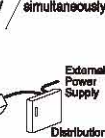
## Wide Lineup

Four types of main duct are available — 100A, 60A, 30A and 20A. You can combine them to create your own flexible wiring systems for factories.

### Multi-purpose Factory Flexible wiring System — it provides three-phase & single-phase power supplies at a time.

#### Factory Line 100

- Three-phase power supply (100A max.)
- Single-phase power supply (20A max.) with breaker-equipped plug



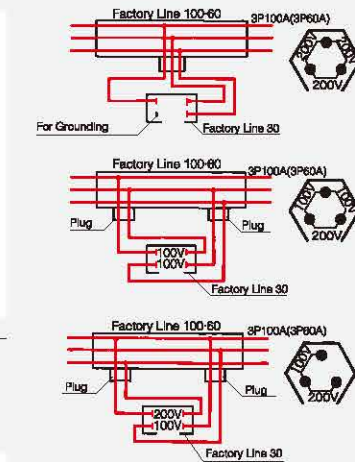
Can be used simultaneously

3-Pin, 100-A, 440-V, with ground for direct branching to drive loads or a Factory Line 30.

2-Pin, 20-A, 300-V, with ground for obtaining power supply for small drive loads, electrical receptacle, and lighting.



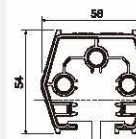
#### Branching from the 3 wires of the upper level to Factory Line 30. [The rating in ( ) is of Factory Line 60.]



### Multi-purpose Factory Flexible wiring System — it provides three-phase & single-phase power supplies at a time.

#### Factory Line 60

- Three-phase power supply (60A max.)
- Single-phase power supply (20A max.) with breaker-equipped plug



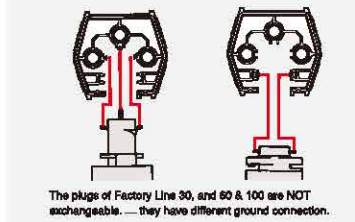
Can be used simultaneously

3-Pin, 60-A, 440-V, with ground for direct branching to a Factory Line 30.

2-Pin, 20-A, 300-V, with ground for obtaining power supply for small drive loads, electrical receptacle, and lighting.



#### Branching from The Upper Level      Branching from The Lower Level

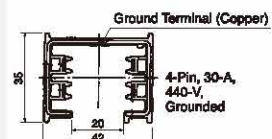


The plugs of Factory Line 30, and 60 & 100 are NOT exchangeable. — they have different ground connection.

### Four wire Factory Flexible wiring System — it provides one or the other: three-phase circuit, or two single-phase circuits.

#### Factory Line 30

- Three-phase power supply, one circuit (30A max.)
- Single-phase power supply, two circuits (30A max.)

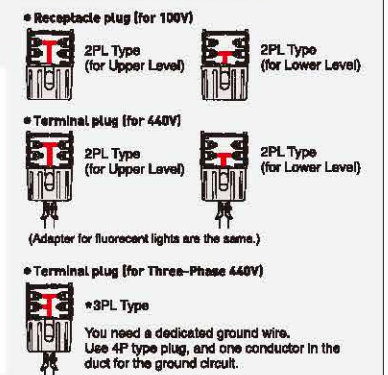


Can be used simultaneously

4-Pin, 30-A, 440-V, Grounded



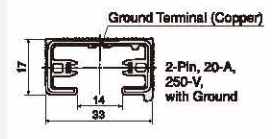
#### Standard Power Supply Take-Off



### Factory Flexible wiring System for small-scale branching — it provides one single-phase power supply circuit.

#### Factory Line 20

- Single-phase power supply (20A max.)



Can be used simultaneously

2-Pin, 20-A, 250-V, with Ground



# FACTORY LINE SYSTEM

## Factory Line 100/60

	Cat. No.	Length & (mm)	Weight (kg)	Rating
Factory Line 100/60 Main Unit (Cream-Gray Finish; Model: 07.2/1.4)	DGHU2411	1,000	3.3	3P 100A 440V + 2P 20A 300V with Ground
	DGHU2412	2,000	6.6	
	DGHU2413	3,000	9.9	
Factory Line 60	DGHU2311	1,000	3.1	3P 60A 440V + 2P 20A 300V with Ground
	DGHU2312	2,000	6.1	
	DGHU2313	3,000	9.1	

	Cat. No.	Weight (kg)	Rating
Feed-In Cap (Cream-Gray Finish)	DGHU2421	1.1	3P 100A 440V + 2P 20A 300V with Ground
Center Feed-In Joiner (Cream-Gray Finish)	DGHU2422	2.4	
Joiner (Cream-Gray Finish)	DH2431	0.1	2P 20A 300V with Ground
End Cap (Cream-Gray Finish)	DH2423K	0.06	—
Hanger (with Bolt)	DH2451	0.18	—
Terminal adapter A (Cream-Gray Finish)	DGHU2481	0.35	3P 30A 440V with Ground
Terminal adapter B (Cream-Gray Finish)	DH2463	0.08	2P 15A 300V with Ground
Locking adapter receptacle (Cream-Gray Finish)	DH2477	0.07	Ground 2P 15A 125V Locking
Adapter receptacle (Cream-Gray Finish)	DH2441	0.07	Ground 2P 15A 125V
Reel-Type Adapter receptacle (Adapter: Cream-Gray Finish, Receptacle: Off-White Finish)	DH2462	0.7	for Twin Ground 2P 15A 125V
	DH2464		for Twin Ground 2P 15A 125V Locking
Hanger (with earthquake resistant reinforcement fixture)	DH2452K1	0.03	—

## Factory Line 30

	Cat. No.	Length & (mm)	Weight (kg)	Rating
Factory Line 30 Main Unit (Cream-Gray Finish; Model: 07.2/1.4)	DGHU2711	1,000	1.6	4P 30A 440V with Ground
	DGHU2712	2,000	3.2	
	DGHU2713	3,000	4.8	

	Cat. No.	Name/Type	Weight (kg)	Rating
Feed-In Cap (Cream-Gray Finish)	DGHU2721	—	0.16	4P 30A 440V with Ground
Center Feed-In Joiner (Cream-Gray Finish)	DGHU2722	—	0.24	
End Cap (Cream-Gray Finish)	DH2723	—	0.01	—
Joiner (Cream-Gray Finish)	DGHU2731	—	0.08	4P 30A 440V with Ground
Terminal Plug (Cream-Gray Finish)	DGHU2781	2PS	0.08	2P 15A 440V with Ground
	DGHU2782	2PL		3P 15A 440V with Ground 4P 15A 440V with Ground
	DGHU2783	3P		
	DGHU2784	4P		
Adapter Receptacle (Cream-Gray Finish)	DH2773	S	0.05	
	DH2774	L		
Locking Adapter Receptacle (Cream-Gray Finish)	DH2791	S	0.05	Ground 2P 15A 125V Locking
	DH2792	L		
Reel-Type Adapter Receptacle (Adapter: Cream-Gray Finish, Receptacle: Off-White Finish)	DH2775	S	0.73	for Twin Ground 2P 15A 125V
	DH2776	L		
	DH2778	S		for Twin Ground 2P 15A 125V Locking
Hanger (with Bolt)	DH2751	—	0.11	—
				Hanger (with earthquake resistant reinforcement fixture)

## Factory Line 20

	Cat. No.	Length & (mm)	Weight (kg)	Rating
Factory Line 20 Main Unit (Cream-Gray Finish; Model: 07.2/1.4)	DGHU2611	1,000	0.79	2P 20A 250V with Ground
	DGHU2612	2,000	1.58	
	DGHU2613	3,000	2.37	

	Cat. No.	Weight (kg)	Rating
Feed-In Cap (Cream-Gray Finish)	DGHU2621K1	0.11	2P 20A 250V with Ground
Center Feed-In Joiner (Cream-Gray Finish)	DGHU2622K1	0.19	
End Cap (Cream-Gray Finish)	DH2623	0.006	—
Joiner (Cream-Gray Finish)	DGHU2631K1	0.1	2P 20A 250V with Ground
Terminal Plug (with Ground) (Cream-Gray Finish)	DGHU2683	0.05	2P 15A 250V with Ground
Plug Sockets (with Ground) (Cream-Gray Finish)	DH2670	0.04	Ground 2P 15A 125V
Locking Plug Socket (Cream-Gray Finish)	DH2671	0.04	2P 15A 125V with Ground
Locking Plug Socket (with Ground) (Cream-Gray Finish)	DH2684	0.04	Ground 2P 15A 125V Locking
Reel-Type Plug Socket (Plug: Cream-Gray Finish, Socket: Off-White Finish)	DH2676	0.69	Twin 2P 15A 125V
Reel-Type Plug Socket (with Ground) (Plug: Cream-Gray Finish, Socket: Off-White Finish)	DH2675	0.7	for Twin Ground 2P 15A 125V
	DH2677		for Twin Ground 2P 15A 125V Locking
Hanger (with Bolt)	DH2651	0.13	—
Hanger (with Bolt)	DH2652	0.03	—

※ 1: 2P/3P/4P 15A 300V with Ground, Power Outlet for The Main Unit.  
 "L" (for the upper 2P conductors) and "S" (for the lower 2P conductors) plug are available in 2P type.  
 ※ 2: "L" (for the upper conductors) and "S" (for the lower conductors) plug are available.

## Factories

You can get power from optimal location quickly even after layout change.

Factory Line 100



## Schools

One single duct can supply power for two circuits at a time — it allows you to connect more devices, and keep the floor clean & tidy.

Factory Line 30



## Retail Stores

Supplying power for lighting & sockets at a time. Highly functional Factory Line 30, which offers two single phase circuits at a time, allows the store to have power for lighting and extra sockets. It also fits into modern, lightly equipped ceilings — the simple wiring produces spacious environment in the store.

Factory Line 30



## [Others]

### Research Institutes & Laboratories

One single duct (Factory Line 30) can provide many small capacity power supplies with different voltages & frequencies — it allows many applications.

### Data Centers

Factory Line 100, 60 and 30 can supply power to both 200V & 100V devices at a time on server racks. NO NEED FOR WIRING SPACE ON/UNDER FLOOR due to power supply from the ceiling.

Information about Panasonic Factory Line Systems

Is available at:

[www2.panasonic.biz/es/densetsu/halkan/ffs/en/](http://www2.panasonic.biz/es/densetsu/halkan/ffs/en/)

● Specification drawings, operation and installation manuals can also be downloaded.

# VENTILATING FAN

# PHOTOVOLTAIC MODULE HIT®



Designed for higher energy production and long-term reliability, Panasonic HIT® ensures you a true peace of mind and satisfaction in your energy management.

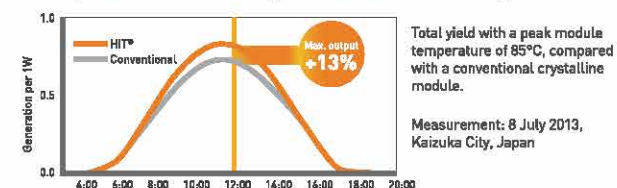
## 1. 19.4% module efficiency

+25% more power from same area



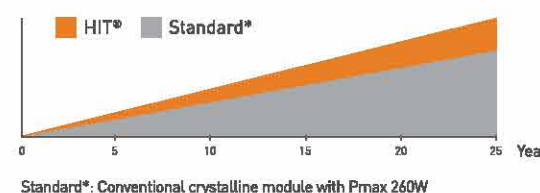
## 2. High performance at high temperature

Up to +13% more generation in the day time

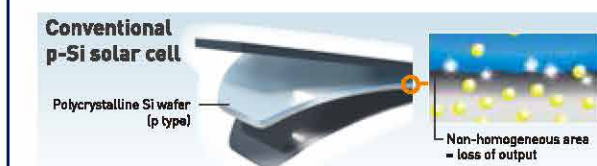
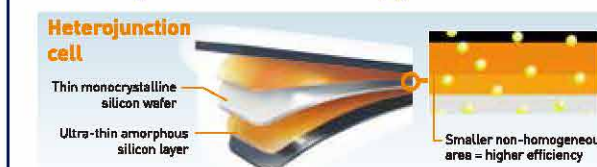


## 3. More generation, higher profit

Helping you reach a higher final profit with your PV system



## Heterojunction technology



### N325 (VBHN325SJ47)

Cell efficiency	<b>21.8%</b>
Module efficiency	<b>19.4%</b>
Output/m <sup>2</sup>	<b>194W/m<sup>2</sup></b>
Temperature coefficient	<b>0.29%/C</b>

Specification	
Max. Power [Pmax]	[W] 325
Open circuit voltage [Voc]	[V] 69.6
Short circuit current [Isc]	[A] 6.03

Size	Weight
W1,053×H1,590×D35mm	18.5kg

### N240 (VBHN240SJ25)

Cell efficiency	<b>21.6%</b>
Module efficiency	<b>19.0%</b>
Output/m <sup>2</sup>	<b>190W/m<sup>2</sup></b>
Temperature coefficient	<b>0.29%/C</b>

Specification	
Max. Power [Pmax]	[W] 240
Open circuit voltage [Voc]	[V] 52.4
Short circuit current [Isc]	[A] 5.85

Size	Weight
W798×H1,580×D35mm	15kg

## Wall Mounted Ventilating Fan

Model	Description	Blade Ø mm	Installation Space (mm)	Wattage	Air Delivery	
					CMH	CFM
FV-24AUF1	Kitchen Fan, Filter Series	250 mm	300 x 300	34	820	483
FV-10EGK1	Pipehood Series, Bathroom Fan	100 mm	Ø 135 ± 5	4.4	80	47
FV-15EGK1	Shutter Series, Bathroom Fan	150 mm	Ø 180 ± 5	8.5	180	106
FV-10EGS1	Shutter Series, Bathroom Fan	100 mm	Ø 120 - Ø 125	4.4	80	47
FV-15EGS1	Shutter Series, Bathroom Fan	150 mm	Ø 165 - Ø 170	8.5	175	103

## Ceiling Mounted Ventilating Fan

Model	Description	Duct Size Ø	Installation Space (mm)	Wattage*	Air Delivery	
					CMH	CFM
FV-17CU7	Super Quiet Series	100 mm	177 x 177	11	85	50
FV-24CU7		100 mm	240 x 240	16	140	82
FV-24CD7		100 mm	240 x 240	19	170	100
FV-24CH7		100 mm	240 x 240	24	190	112
FV-27CH9	Super Quiet Series, High-low Speed Selectable	150 mm	270 x 270	33(H) / 26(L)	330(H) / 270(L)	194(H) / 159(L)
FV-32CD9		150 mm	320 x 320	48(H) / 33(L)	410(H) / 285(L)	241(H) / 168(L)
FV-32CH9		150 mm	320 x 320	61(H) / 47(L)	525(H) / 390(L)	309(H) / 230(L)
FV-38CD8	Standard Series, High-low Speed Selectable	150 mm	385 x 385	98(H) / 66(L)	630(H) / 410(L)	371(H) / 241(L)
FV-38CH8		150 mm	385 x 385	138(H) / 90(L)	790(H) / 500(L)	465(H) / 294(L)

## Industrial Type Ventilating Fan

Model	Description	Blade Ø mm	Noise [dB(A)]	Wattage	Air Delivery	
					CMH	CFM
FV-25GS4	High Pressure Series, Single Phase Reversible	250 mm	39	47	1250	736
FV-30GS4		300 mm	42	80	2080	1224
FV-35GS4		350 mm	48	127	2940	1730
FV-40GS4		400 mm	51	210	4240	2496

## Low-Noise Type Cabinet Fan (In-Line Fan)

Model	Description	Duct Size Ø	Impeller Diameter (mm)	Wattage*	Air Delivery	
					CMH	CFM
FV-12NS3	Single Phase Series, In-Line Fan	100 mm	128	23(H) / 19(L)	190(H) / 145(L)	112(H) / 85(L)
FV-15NS3		150 mm	128	42(H) / 33(L)	370(H) / 260(L)	218(H) / 153(L)
FV-18NS3		150 mm	158	73(H) / 62.5(L)	490(H) / 385(L)	288(H) / 227(L)
FV-18NF3		200 mm	158	119(H) / 87(L)	740(H) / 580(L)	447(H) / 341(L)
FV-20NS3		200 mm	178	159(H) / 128(L)	860(H) / 620(L)	506(H) / 365(L)

## Air Curtain

Model	Length	Outlet Velocity [m/s]	Efficient Distance	Wattage*	Air Volume	
					CMH	CFM
FY-08ESN	900 mm	12.1(H) / 9.9(L)	2.5m (8ft)	57(H) / 49(L)	690(H) / 560(L)	406(H) / 330(L)
FY-08ELN	1200 mm	12.4(H) / 10.5(L)	2.5m (8ft)	74(H) / 62(L)	940(H) / 740(L)	553(H) / 465(L)
FY-10ESN	900 mm	14.9(H) / 10.9(L)	3m (10ft)	88(H) / 72(L)	860(H) / 600(L)	506(H) / 353(L)
FY-10ELN	1200 mm	15.1(H) / 10.5(L)	3m (10ft)	116(H) / 85(L)	1150(H) / 790(L)	677(H) / 465(L)
FY-12ESN	900 mm	16.12(H) / 15.3(L)	3.5m (12ft)	202(H) / 170(L)	990(H) / 940(L)	583(H) / 553(L)
FY-12ELN	1200 mm	16.2(H) / 15.4(L)	3.5m (12ft)	268(H) / 220(L)	1340(H) / 1290(L)	789(H) / 759(L)
FY-14ESN	900 mm	21.3(H) / 17.7(L)	4m (14ft)	312(H) / 255(L)	1303(H) / 1083(L)	767(H) / 637(L)
FY-14ELN	1200 mm	22(H) / 18.7(L)	4m (14ft)	423(H) / 339(L)	1826(H) / 1552(L)	1075(H) / 913(L)

## Hand Dryer

Model	Description	Weight	Noise [dB(A)]	Air Velocity [m/min]	Wattage	
					Heater On	Heater Off
FJ-T09A3	with Drain Pan	4 kg	62	90 - 100	1020	650
FJ-T09B3	without Drain Pan	3.5 kg	62	90 - 100	1020	650

\*(H) High voltage setting  
(L) Low voltage setting

FULL-2WAY REMOTE LIGHTING CONTROL SYSTEM

FACTORY LINE SYSTEMS

VENTILATING FAN

PHOTOVOLTAIC MODULE HIT®

FULL-2WAY REMOTE LIGHTING CONTROL SYSTEM

FACTORY LINE SYSTEMS

VENTILATING FAN

PHOTOVOLTAIC MODULE HIT®

Smarter choices for energy saving

## LED LAMPS , CFL LAMPS



### VZ LED / VZ LED High Watt

1. Energy saving  
Wattage : 2.2-12.0 W
2. Longer lasting 15,000hrs (VZ LED) /25,000 hrs (VZ LED High watt)
3. Compact design

#### VZ LED



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
LDAHV2DG4A	2.2	210	95	6500K Cool Daylight
LDAHV2LG4A	2.2	210	95	3000K Warm White
LDAHV4DG4A	3.5	330	94	6500K Cool Daylight
LDAHV4LG4A	3.5	330	94	3000K Warm White
LDAHV5DG4A	4.5	460	102	6500K Cool Daylight
LDAHV5LG4A	4.5	420	93	3000K Warm White
LDAHV7DG4A	6.5	650	100	6500K Cool Daylight
LDAHV7LG4A	6.5	600	92	3000K Warm White
LDAHV8DG4A	8	850	106	6500K Cool Daylight
LDAHV8LG4A	8	800	100	3000K Warm White
LDAHV10DG4A	9.5	950	100	6500K Cool Daylight
LDAHV10LG4A	9.5	950	100	3000K Warm White
LDAHV12DG4A	12	1250	104	6500K Cool Daylight
LDAHV12LG4A	12	1200	100	3000K Warm White

#### VZ LED High Watt



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
LDTHV16DGNA	16	2000	125	6500K Cool Daylight
LDTHV25DGNA	25	3000	120	6500K Cool Daylight
LDTHV35DGNA	35	4000	114	6500K Cool Daylight

### Compact Fluorescent Lamps (U Shape, Spiral)

Energy saving of about 80% compared to an equivalent wattage of an incandescent bulb. Spiral types also features up to 40% useful life (10,000hrs) as compared to normal spiral type energy saving bulbs.

#### U Shape



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
EFU5E672V	5	235	47	6500K Cool Daylight
EFUHV8D65A	8	430	54	6500K Cool Daylight
EFUHV11D65A	11	620	56	6500K Cool Daylight
EFUHV14D65A	14	810	58	6500K Cool Daylight
EFU11E652V	11	595	54	6500K Cool Daylight
EFU14E652V	14	760	54	6500K Cool Daylight
EFUHV18D65A3	18	1100	61	6500K Cool Daylight
EFUHV23D65A3	23	1380	60	6500K Cool Daylight

#### Spiral



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
EFDHV5D65A	5	300	60	6500K Cool Daylight
EFDHV8D65A	8	490	61	6500K Cool Daylight
EFDHV11D65A	11	685	62	6500K Cool Daylight
EFDHV15D65A	15	930	62	6500K Cool Daylight
EFDHV20D65A	20	1250	63	6500K Cool Daylight
EFDHV23D65A	23	1460	64	6500K Cool Daylight
EFDHV25D65A	25	1660	66	6500K Cool Daylight

### Straight Lamp, Circular Lamp, Emergency Light

#### Straight Lamp



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
FL20SSD18G	18	1030	57	6500K Cool Daylight
FL40SSD36G	36	2600	72	6500K Cool Daylight

#### Circular Lamp



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	lm/w	Color Temperature
FCL22D	22	900	41	6500K Cool Daylight
FCL32D	32	1780	56	6500K Cool Daylight

#### Emergency Light



Model No.	Power Consumption(W)	Fixture Luminous Flux (lm)	Battery Lamp	Color Temperature
LDR400N	6W x 2	400 x 2	12V- 7.2Ah	5000K
LDS300D2N	3.2W x 2	300 x 2	6V- 4.5Ah	6500K





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