

## Valve Regulated Lead-Acid (VRLA) Batteries (6V, 12V Models) Electrolyte Data for Environmental Reporting Purposes

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### **Electrolyte and Lead Environmental Regulatory Information**

VRLA batteries are manufactured using lead electrodes (CAS No. 7439-92-1) and sulfuric acid electrolyte (CAS No. 7664-93-9) which are subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), Sections 302, 311, 312 and 313 (40CFR 355 and 372). EPCRA is intended to provide the public with information about hazardous substances in their communities and to establish emergency response plans for chemical accidents. The Environmental Protection Agency (EPA) manages EPCRA.

### **General Description:**

Valve Regulated Lead-Acid batteries are sealed and non-spillable with pasted lead-calcium plates. These VRLA batteries are also called “starved electrolyte” batteries because they differ from the conventional “unsealed” or wet lead-acid cell by containing only a minimum amount of electrolyte (i.e. “starved electrolyte”) that is immobilized in an absorbent glass mat (AGM) separator. Thus, the cells are non-spillable, meeting the requirements of 49CFR 173, 159 (d), because all the liquid electrolyte is trapped (NO “free electrolyte”) in the sponge-like AGM separator material and the cell case and cover are sealed together encasing the battery and all its internal components.

**NOTE:** Panasonic Valve Regulated Lead-Acid batteries do NOT use a gelled electrolyte.

The end-user has NO contact with the battery’s internal components, including the electrolyte, during installation and operation.

### **NOTICE TO READERS**

This information has been compiled from sources considered to be dependable and is, to the best of our knowledge and belief, accurate and reliable. However, no representation, warranty (either expressed or implied) or guarantee is made to the accuracy, reliability or completeness of the information contained herein.

### **For additional information on Environmental and Regulatory matters, contact:**

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PROTECT THE ENVIRONMENT – RECYCLE LEAD-ACID  
BATTERIES AT AN EPA APPROVED RECYCLING FACILITY

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**Panasonic**  
**Valve Regulated Lead-Acid (VRLA) Batteries: 6V and 12V models**  
**Electrolyte Data for Reporting Purposes**

Model Number **	Voltage (V)	Nominal Capacity (Ah)	Total Weight (lbs)	Total Weight (kg)	Lead		Electrolyte					100% Sulfuric Acid				Product Status
					Weight (lbs)	Weight (kg)	Specific Gravity	Weight (lbs)	Weight (g)	Volume (US Gal)	Volume (ml)	Sulfuric Acid				
												Weight (lbs)	Weight (g)	Volume (US Gal)	Volume (ml)	
LC-R061R3P	6	1.3	0.7	0.3	0.4	0.2	1.310	0.085	38.5	0.008	29.4	0.034	15.4	0.002	8.386	Active
LC-R063R4P	6	3.4	1.4	0.6	1.0	0.4	1.310	0.224	101.5	0.020	77.5	0.090	40.7	0.006	22.106	Active
LC-RB064P	6	4.0	2.0	0.9	1.2	0.5	1.300	0.275	124.8	0.025	96.0	0.107	48.5	0.007	26.337	Discontinued
LC-R064R2P	6	4.2	1.7	0.8	1.2	0.6	1.300	0.378	171.6	0.035	132.0	0.147	66.7	0.010	36.214	Discontinued
LC-R064R5P	6	4.5	1.7	0.8	1.2	0.6	1.300	0.378	171.6	0.035	132.0	0.147	66.7	0.010	36.214	Active
LC-R065P	6	5.0	2.1	1.0	1.5	0.7	1.300	0.344	156.0	0.032	120.0	0.134	60.6	0.009	32.922	Discontinued
LC-RB066R5P	6	6.5	2.6	1.2	1.9	0.9	1.310	0.488	221.4	0.045	169.0	0.195	88.8	0.013	48.205	Discontinued
LC-R067R2P	6	7.2	2.8	1.3	2.1	1.0	1.310	0.511	231.9	0.047	177.0	0.205	93.0	0.013	50.487	Active
LC-P067R2P	6	7.2	2.8	1.3	2.1	1.0	1.310	0.511	231.9	0.047	177.0	0.205	93.0	0.013	50.487	Active
LC-RB0610P	6	10.0	3.9	1.8	2.9	1.3	1.310	0.701	318.3	0.064	243.0	0.281	127.6	0.018	69.313	Discontinued
LC-R0612P	6	12.0	4.3	2.0	3.5	1.6	1.310	0.814	369.4	0.074	282.0	0.326	148.1	0.021	80.437	Active
LC-P0612P	6	12.0	4.3	2.0	3.5	1.6	1.310	0.814	369.4	0.074	282.0	0.326	148.1	0.021	80.437	Active
LC-R121R3P	12	1.3	1.3	0.6	0.7	0.3	1.310	0.169	76.9	0.015	58.7	0.068	30.8	0.004	16.744	Active
LC-T121R8P	12	1.8	1.3	0.6	1.0	0.5	1.320	0.221	100.3	0.020	76.0	0.091	41.5	0.006	22.516	Discontinued
LC-SD122P	12	2.0	1.3	0.6	0.9	0.4	1.350	0.243	110.4	0.022	81.8	0.110	49.7	0.007	27.006	Discontinued
LC-R122R2P	12	2.2	1.8	0.8	1.2	0.6	1.300	0.309	140.4	0.029	108.0	0.120	54.6	0.008	29.629	Active
LC-SA122R3P	12	2.3	1.4	0.6	1.1	0.5	1.350	0.262	118.8	0.023	88.0	0.118	53.5	0.008	29.053	Discontinued
LC-R123R4P	12	3.4	2.7	1.2	1.9	0.9	1.310	0.447	203.1	0.041	155.0	0.179	81.4	0.012	44.212	Active
LC-RB124P	12	4.0	3.8	1.7	2.4	1.1	1.310	0.554	251.5	0.051	192.0	0.222	100.8	0.014	54.766	Discontinued
UP-RW1220P	12	20W/10MR	3.0	1.4	2.0	0.9	1.333	0.498	225.9	0.045	169.5	0.214	97.0	0.014	52.680	Active
LC-R125P	12	5.0	4.3	1.9	3.0	1.3	1.300	0.687	312.0	0.063	240.0	0.267	121.2	0.017	65.843	Discontinued
LC-RB126R5P	12	6.5	5.0	2.3	3.8	1.7	1.310	0.975	442.8	0.089	338.0	0.391	177.5	0.025	96.411	Discontinued
LC-R127R2P	12	7.2	5.5	2.5	4.2	1.9	1.310	0.995	452.0	0.091	345.0	0.399	181.2	0.026	98.407	Active
LC-P127R2P	12	7.2	5.5	2.5	4.2	1.9	1.310	0.995	452.0	0.091	345.0	0.399	181.2	0.026	98.407	Active
UP-RW1232P	12	32W/10MR	4.4	2.0	2.9	1.3	1.333	0.706	320.5	0.063	240.4	0.303	137.6	0.020	74.716	Active
UP-RW1245P	12	45W/10MR	6.5	3.0	4.2	1.9	1.310	1.034	469.6	0.095	358.5	0.415	188.3	0.027	102.258	Active
UP-PW1245P	12	45W/10MR	6.5	3.0	4.2	1.9	1.310	1.034	469.6	0.095	358.5	0.415	188.3	0.027	102.258	Active
LC-RB1210P	12	10.0	7.9	3.6	5.8	2.6	1.310	1.402	636.7	0.128	486.0	0.562	255.2	0.037	138.626	Discontinued
LC-R1212P	12	12.0	8.6	3.9	7.0	3.2	1.310	1.630	740.2	0.149	565.0	0.654	296.7	0.043	161.160	Discontinued
LC-RA1212P	12	12.0	8.5	3.9	5.7	2.6	1.300	1.665	756.1	0.154	581.6	0.647	293.8	0.042	159.560	Active
LC-RC1217P	12	17.0	14.3	6.5	10.6	4.8	1.310	2.343	1,063.7	0.214	812.0	0.939	426.4	0.061	231.614	Discontinued
LC-RD1217P	12	17.0	14.3	6.5	10.6	4.8	1.310	2.343	1,063.7	0.214	812.0	0.939	426.4	0.061	231.614	Active
LC-PD1217P	12	17.0	14.3	6.5	10.6	4.8	1.310	2.343	1,063.7	0.214	812.0	0.939	426.4	0.061	231.614	Active
LC-X1220P	12	20.0	14.7	6.7	10.1	4.6	1.330	2.471	1,122.0	0.223	843.6	1.052	477.5	0.069	259.343	Active
LC-LA1233P	12	33.0	26.5	12.0	19.4	8.8	1.330	4.248	1,928.5	0.383	1,450.0	1.808	820.7	0.118	445.765	Discontinued
LC-R1233P	12	33.0	26.5	12.0	19.4	8.8	1.330	4.248	1,928.5	0.383	1,450.0	1.808	820.7	0.118	445.765	Active
LC-V1233P	12	33.0	26.5	12.0	19.4	8.8	1.330	4.248	1,928.5	0.383	1,450.0	1.808	820.7	0.118	445.765	Active
LC-X1224P	12	24.0	19.2	8.7	14.1	6.4	1.310	3.252	1,476.4	0.298	1,127.0	1.304	591.9	0.085	321.464	Active
LC-X1228P	12	28.0	24.3	11.0	18.1	8.2	1.310	3.855	1,750.2	0.353	1,336.0	1.545	701.6	0.101	381.079	Active
LC-XC1228P	12	28.0	24.3	11.0	18.1	8.2	1.310	3.855	1,750.2	0.353	1,336.0	1.545	701.6	0.101	381.079	Active
LC-X1238P	12	38.0	28.7	13.0	18.9	8.6	1.310	5.817	2,641.0	0.532	2,016.0	2.332	1,058.8	0.152	575.041	N/A*
LC-X1242P	12	42.0	35.3	16.0	25.1	11.4	1.310	6.544	2,971.1	0.599	2,268.0	2.624	1,191.1	0.171	646.922	N/A*
LC-X1265P	12	65.0	52.9	24.0	36.3	16.5	1.310	10.520	4,776.3	0.963	3,646.0	4.218	1,914.8	0.275	1,039.981	N/A*
LC-X1275P	12	75.0	57.3	26.0	40.1	18.2	1.280	11.503	5,222.4	1.077	4,080.0	4.186	1,900.3	0.273	1,032.102	Discontinued
LC-XA12100P	12	100.0	81.6	37.0	57.1	25.9	1.340	11.157	5,065.2	0.998	3,780.0	4.886	2,218.2	0.318	1,204.754	N/A*

\* Not available in North America

Note: The same data applies to all variations of the model number (Terminal Options: P, P1, P2, AP or Pressure Contact /// Resin Options: UL94HB or UL94-V0)