



Sealed Lead-Acid Batteries (Valve Regulated)

TECHNICAL FEATURES: "DO NOT LEAK!!"

- Sealed Construction:** BB unique construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. They are classified as "Non-Spillable" and meet all requirements of the International Air Transport Association (I.A.T.A.) and D.O.T.
- Electrolyte Suspension System:** All BB batteries utilize an electrolyte suspension system consisting of a glass fibre separator material. This suspension system helps to achieve maximum service life, by fully retaining the electrolyte and preventing its escape from the separator material. No silica gels or other contaminants are used.
- Maintenance Free Operation:** During the life of BB batteries, there is no need to check their specific gravity or add water etc. In fact, there are no provisions for such maintenance functions to be carried out.
- Operation in Any Orientation:** The combination of sealed construction and BB's electrolyte suspension system permits operation of BB batteries in any orientation, but upside-down charging should be avoided. Battery will not lose its capacity, electrolyte, or service life under any orientation.
- Low Pressure Venting System:** BB batteries are equipped with a safe, low pressure venting system, which is designed to release excess gas and reseal

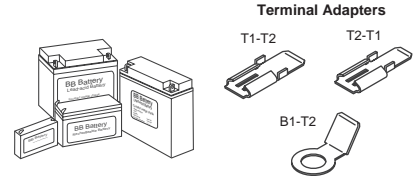
automatically in the event of the internal gas pressure rising to an unacceptable level. This low pressure venting system, coupled with the significantly high recombination efficiency, make BB batteries one of the safest valve regulated lead acid batteries available.

- Heavy Duty Grids:** The heavy duty lead calcium alloy grids in BB batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.
- The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.
- U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:

EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; CS = CSB; PA = Panasonic



Terminal Adapters

Description	Digi-Key Part No.	Price Each	BB Part No.
0.187 Terminal - 0.250 Terminal	522-1019-ND	.25	T1-T2
0.250 Terminal - 0.187 Terminal	522-1020-ND	.25	T2-T1
Nut/Bolt Terminal - 0.250 Terminal	522-1021-ND	.25	B1-T2

Cap. 20h Rate (V)	Cap. (Ah)	Dimensions - In. (mm) L x W x H	Term. Type (In.)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1 10 Carton	BB Part No.	BB Replacement Battery Cross Reference (see above for mfg. abbreviations)
6	1.2	3.82 x 0.98 x 2.01 (97 x 25 x 51)	.187 spade	0.66 (30)	522-1000-ND	5.04 44.80	215.60/55	BP12-6-T1 EP: CF-6V1.3; YU: NP1-2-6; PS: PS-612; CS: GP612; PA: LC-R061R3P, LCR6V1.3P
	3.0	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.43 (65)	522-1001-ND	5.42	86.76/18	BP3-6-T1 EP: CF-6V3.4; YU: NP3-6; PS: PS-630; CS: GP630; PA: LC-R063R4P, LCR6V3.4P
	5.0	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	2.09 (95)	522-1002-ND	6.23	81.99/16	BP5-6-T1 EP: CF-6V4.5; YU: NP4-6; PS: PS-640; CS: GP640; PA: LC-R064R2P, LCR6V4.5P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.87 (1.3)	522-1003-ND	8.60	84.80/12	BP7-6-T1 EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1; CS: GP672F1; PA: LC-R067R2P, LCR6V7.2P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.250 spade	2.87 (1.3)	522-1004-ND	8.60	84.80/12	BP7-6-T2 EP: CF-6V7(C); YU: NP7-6(D); PS: PS-670F2; CS: GP672F2; PA: LC-R067R2P1, LCR6V7.2P1
	12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.52 (2.05)	522-1005-ND	11.27	74.15/8	BP12-6-T1 EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1; CS: GP6120F1; PA: LC-R0612P, LCR6V12P
12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.52 (2.05)	522-1006-ND	11.27	74.15/8	BP12-6-T2 EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2; CS: GP6120F2; PA: LC-R0612P1, LCR6V12P1	
12	1.2	3.82 x 1.77 x 2.09 (97 x 45 x 53)	.187 spade	1.30 (59)	522-1007-ND	7.72	63.46	BP12-12-T1 EP: CF-12V1.3; YU: NP1-2-12; PS: PS-1212; CS: GP1212; PA: LC-R121R3P, LCR12V1.3P
	2.3	7.01 x 1.34 x 2.36 (178 x 34 x 60)	.187 spade	2.07 (94)	522-1008-ND	8.87	131.20/18	BP3-12-T1 EP: CF-12V2; YU: NP2-3-12; PS: PS-1220; CS: GP1222; PA: LC-R122R2P, LCR12V2.2P
	3.0	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.87 (1.30)	522-1009-ND	10.73	88.25/10	BP5-12-T1 EP: CF-12V3; YU: NP2-6-12; PS: PS-1230; CS: GP1234; PA: LC-R123R4P, LCR12V3.4P
	5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.250 spade	4.10 (1.86)	522-1010-ND	11.12	73.11/8	BP3-12-T2 EP: CF-12V4.5; YU: NP5-12; PS: PS-1250; CS: GP1250; PA: LC-R125P1, LCR12V5P1
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.187 spade	5.73 (2.60)	522-1011-ND	14.11	69.60/6	BP7-12-T1 EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1; CS: GP1272F1; PA: LC-R127R2P, LCR12V7.2P
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.250 spade	5.73 (2.60)	522-1012-ND	14.11	69.60/6	BP7-12-T2 EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2; CS: GP1272F2; PA: LC-R127R2P1, LCR12V7.2P1
	12	5.94 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.89 (4.03)	522-1013-ND	20.68	68.01/4	BP12-12-T2 EP: CF-12V12; YU: NP12-12; PS: PS-12120; CS: GP12120; PA: LC-RA1212P1, LCR12V12P1
	17	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	13.6 (6.15)	522-1014-ND	23.52	201.60	BP17-12-B1 EP: CF-12V17; YU: NP18-12; PS: PS-12180; CS: GP12170; PA: LC-RD1217P, LCR12V17
	28	6.89 x 6.54 x 4.92 (175 x 166 x 125)	nut/bolt	21.2 (9.6)	522-1015-ND	35.35	303.00	BP28-12-B1 EP: CF-12V26; YU: NP24-12; PS: PS-12260; CS: GP12260
	33	7.68 x 5.08 x 7.05 (195 x 129 x 179)	nut/bolt	24.8 (11.3)	522-1016-ND	46.50	398.55	BP33-12S-B2-1 EP: CF-12V33U1; PS: PS-12330; CS: GP12340; PA: LC-R1233P, LCR12V33
	40	7.76 x 6.50 x 6.73 (197 x 165 x 171)	nut/bolt	31.5 (14.3)	522-1017-ND	54.48	466.95	BP40-12-B2 EP: CFR-12V38; YU: NP38-12; PS: PS-12400; CS: GP12400; PA: LC-X1242P
	65	13.78 x 6.54 x 6.85 (350 x 166 x 174)	nut/bolt	54.0 (24.5)	522-1018-ND	87.52	750.15	BP65-12-B2-2 EP: CFR-12V65; YU: NP65-12; PS: PS-12750; CS: GP12650; PA: LC-X1265P, LCR12V65P

* See "Ordering Information" for note on shipping charges on prepaid orders.

Panasonic Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: "DO NOT LEAK!!"

- High Quality & High Reliability:** The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process.
- High Power Density:** These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output.
- Leak-resistant Structure:** The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, and can be used in any position.
- Long Service Life; Float or Cyclic:** The LCR battery has long life in float or cyclic service.

- Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water during the service life. Totally sealed, and needs only charging for maintenance.
- No Corrosive Gas Generation:** There is no corrosive gas generation during normal use.
- Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge.
- D.O.T and I.A.T.A. Approval:** Transportation: The SLA batteries should be handled as common cargoes for both air and boat shipping.
- U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when

overcharged. It further requires that the equipment and battery be submitted together for formal UL approval. (UL Component Recognition does NOT remove this requirement for complete package testing). The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:

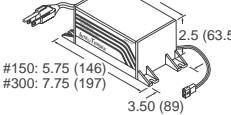
EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; PA = Panasonic



PATCO Battery Charger/Maintainer

INTELTENDER MODELS 150 & 300

Dim. in Inch (mm)



The InteliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

Volt	Amp	Model	Digi-Key Part No.	Price Each	
Battery Chargers					
6	.75	150	PATC-02-ND	69.93	
6	1.5	150	PATC-01-ND1	69.93	
12	.75	150	PATC-04-ND	69.93	
12	1.5	150	PATC-03-ND1	69.93	
12 x 2	1.5 x 2	300	PATC-08-ND1	124.88	
Cable (Must Order Separately)					
Battery Hook-up, Spring Clamp				PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs				PATC-06-ND	5.00
Marine Hook-up, Ring Lugs				PATC-05-ND	5.00

* Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah & above batteries.

Cap. 20h Rate (V)	Cap. (Ah)	Dimensions - In. (mm) L x W x H	Term. Type (In.)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1 10 Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see above for mfg. abbreviations)
6	1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (30)	P128-ND	8.52 75.76	265.15/40	LC-R061R3P EP: CF-6V1.3; YU: NP1-2-6; PS: PS-612
	3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (62)	P166-ND	16.58 147.41	309.56/24	LC-R063R4P EP: CF-6V3.4; YU: NP3-6; PS: PS-630
	4.2	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.72 (78)	P164-ND	8.66 78.75	170.10/24	LC-R064R2P EP: CF-6V4.5; YU: NP4-6; PS: PS-640
	4.5	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.59 (72)	P141-ND NEW!	8.66 78.75	170.10/24	LC-R064R5P EP: CF-6V4.5; YU: NP4-6; PS: PS-640
	7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	13.75	135.64/12	LC-R067R2P EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	16.49	162.73/12	LC-R0612P EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1
12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	16.49	162.73/12	LC-R0612P1 EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2	
12	1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (59)	P264-ND	17.99 159.91	279.85/20	LC-R121R3P EP: CF-12V1.3; YU: NP1-2-12; PS: PS-1212
	2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (80)	P171-ND	20.74 184.33	387.09/24	LC-R122R2P EP: CF-12V2; YU: NP2-3-12; PS: PS-1220
	3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	26.57	248.01/12	LC-R123R4P EP: CF-12V3; YU: NP2-6-12; PS: PS-1230
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	20.86	162.23/10	LC-R127R2P EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	20.86	162.23/10	LC-R127R2P1 EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2
	12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	34.34	160.23/6	LC-RA1212P1 EP: CF-12V12; YU: NP12-12; PS: PS-12120
	17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	38.36	131.52/4	LC-RD1217P EP: CF-12V17; YU: NP18-12; PS: PS-12180
	20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	44.68	153.18/4	LC-X1220P
	28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	58.28 499.50	—	LC-X1282B PA: LCXB1228P
	33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	59.73 511.95	—	LC-R1233P EP: CF-12V33U1; PS: PS-12330; PA: LCR12V33

Cap. @ 10 Minute Rate (V)	Cap. (watt/cell)	Dimensions - Inch (mm) L x W x H	Term. Type (In.)	Weight Lbs. (kg)	Digi-Key Part No.	Pricing 1 Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference
Watt-Rated Series (Designed for UPS Back-up Systems)								
12	20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	20.48 202.02/12	UP-RW1220P1	—
	45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	23.99 197.21/10	UP-RW1245P1	PA: LC-R129P1, PA: LC-R129CH1

* See "Ordering Information" for note on shipping charges on prepaid orders.