Sealed Lead-Acid Battery Chargers

FEATURES

Electronically regulated - current limited chargers for sealed lead-acid type batteries.

Wall mount plug-in design for 250, 300, 500, 800 series and 61000A; counter top design for 241000A, 2000, 4000 and 10A series.

Operating temperature range: 32ºF - 104ºF (0ºC - 40ºC).

Input voltage: 110/120 VAC, 60Hz. PSC-122000A and PSC-241000A can be switched to accept 220/230 VAC, 50Hz.

LED's: For 250A & 500A series: "POWER ON" and "CHARGING MODE" (ON=high-rate charging, OFF=float charging). For 300, 800, 1000, & 10A series: "FLOAT" and "FAST CHARGE" indicators. For 2000A, 241000A and 4000 series: single tri-color indicator.

Hi-impact resistant thermo-plastic housing for 250, 300, 500, and 800 series; metal housing for 1000, 2000, 4000, and 10A series.

Screw-type terminals for 250 & 500 series, I/O cord with battery connectors for 300, 800, 1000, 2000, 4000 and 10A series chargers.

CHARACTERISTICS

"F" Series: Float chargers are designed to provide optimum life for batteries used in standby applications where charging is continuous. The chargers deliver a constant voltage of 2.25 to 2.30 volts per cell which allow the battery to seek its own current level and maintain itself in a fully charged condition. This series is best suited for burglar and fire alarm equipment, emergency lighting, memory protection, or UPS systems where the battery serves as back-up power to the AC source.

"A" Series: Automatic dual rate chargers sense battery requirements and automatically switch from the fast charge to float mode, or vice versa. LED's provide visual indication of the charging mode. Automatic chargers combine the advantages of float and cycle chargers; recharge time is short yet batteries are safe from being overcharged. This charger is ideal for cyclic applications where recharge time is critical and the battery may be left on charge indefinitely. As a result charging is fool-proof.

SPECIFICATIONS

Model	Output Voltage (V)		Output Current (A)		Type	Dimensions (in.)			Weight (lbs.)
	Nominal	Range	Nominal	Maximum		Length	Width	Height	
PSC-6250F	6	6.83	.30	.40	Fixed volt. float	2.20	1.96	1.88	0.5
PSC-6250A	6	6.75/7.35	.30	.40	Dual volt. auto.	2.20	1.96	1.88	0.5
PSC-6300A	6	6.84/7.35	.30	.30	Dual volt. auto.	2.75	2.75	3.75	1.36
PSC-6500A	6	6.75/7.35	.60	.75	Dual volt. auto.	2.55	1.88	2.89	0.8
PSC-61000A	6	6.84/7.35	1.00	1.00	Dual volt. auto.	2.75	2.75	3.75	1.36
PSC-64000A	6	6.75/7.35	3.50	4.00	Dual volt. auto.	5.70	5.80	3.30	6.0
PSC-12250F	12	13.65	.25	.40	Fixed volt. float	2.20	1.96	1.88	0.5
PSC-12250A	12	13.50/14.70	.25	.40	Dual volt. auto.	2.20	1.96	1.88	0.5
PSC-12300A	12	13.68/14.70	.30	.30	Dual volt. auto.	2.75	2.75	3.75	1.36
PSC-12500F	12	13.65	.50	.60	Fixed volt. float	2.55	1.88	2.89	0.8
PSC-12500A	12	13.50/14.70	.50	.60	Dual volt. auto.	2.55	1.88	2.89	0.8
PSC-12800A	12	13.68/14.70	.80	.80	Dual volt. auto.	2.75	2.75	3.75	1.36
PSC-122000A	12	13.50/14.70	2.00	2.00	Dual volt. auto.	5.55	3.60	2.90	3.8
PSC-124000A	12	13.50/14.70	4.00	4.75	Dual volt. auto.	6.65	5.30	3.40	7.4
PSC-124000AP	12	13.50/14.70	4.00	3.50/2.50	Charger/Pwr. Supply	6.65	5.30	3.40	7.4
PSC-12-10A	12	13.50/14.70	10.00	10.00	Dual volt. auto.	7.95	6.10	4.50	9.0
PSC-241000A	24	27.00/29.40	1.00	1.00	Dual volt. auto.	5.55	3.60	2.90	3.8

SLA CHARGER SELECTION GUIDE

Charger Model	Max Output mA	Use With Battery Voltage	Capacity	U.L./CSA Listing
PSC-6250F	400	6V	1-5 AH	U.L.
PSC-6250A	400	6V	1-5 AH	U.L.
PSC-6300A	300	6V	1-5 AH	CSA/NRTL*
PSC-6500A	500	6V	2-10 AH	U.L.
PSC-61000A	1000	6V	4.5-12 AH	CSA/NRTL*
PSC-64000A	4000	6V	20-40 AH	- - -
PSC-12250F	375	12V	1-5 AH	U.L.
PSC-12250A	275	12V	1-5 AH	U.L.
PSC-12300A	300	12V	1-5 AH	CSA/NRTL*
PSC-12500F	600	12V	2-10 AH	U.L.
PSC-12500A	500	12V	2-10 AH	U.L.
PSC-12800A	800	12V	4-12 AH	CSA/NRTL*
PSC-122000A**	2000	12V	10-20 AH	CSA
PSC-124000A**	4000	12V	12-40 AH	CSA
PSC-124000AP***	3500	12V	12-40 AH	CSA
PSC-12-10A	10000	12V	40-100 AH	- - -
PSC-241000A**	1000	24V	4.5-15 AH	CSA

* The "NRTL/C" mark appearing next to the CSA stamp indicates that the charger was also tested to meet U.L. requirements (UL 1310). Under the provisions of this agreement, CSA and U.L. can now test to each others' specifications and thus obtain approval for both organizations.

** PSC-122000A, PSC-241000A and PSC-124000A can be switched to accept 115 VAC or 230 VAC input (47-63 Hz) allowing usage both here and abroad.

*** PSC-124000AP should be used when the automatic dual rate charger is used like a power supply. As such it can supply a continuous load current of up to 2.5A, yet still switch into float mode (13.8V) when the battery is fully charged.

Notes:

Recharge time depends on the depth of the preceding discharge and the output current of the charger. To determine the approximate recharge time of a fully discharged battery, divide the battery's amp. hrs. by the rated output current of the charger and multiply the resulting number of hours by a factor of 1.75 to compensate for the declining output current during the charge cycle. If the amount of amp. hrs. discharged from the battery is known, use it instead of the battery's capacity to make the calculation.

When charging batteries in series (positive terminal of one battery is connected to negative of the other) all batteries in the string will receive the same amount of charge current, individual battery voltages may vary.

When charging batteries in parallel (positive terminals are connected with positive terminals, negative terminals with negative), all batteries in the string are subject to the same charge voltage, but the charge current each battery receives can and will vary until equalization is reached.

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