



# A-C SERIES SWITCH-MODE CHARGERS FOR SLA BATTERIES



## Features

- I.C. based voltage and current regulation designed for sealed (valve-regulated) lead-acid batteries
- Useable on domestic and overseas input voltages from 110VAC - 60Hz to 240VAC - 50Hz, except for the PSC-1210000A-C, see charger selection guide
- Automatic, current sensing dual-rate charging for efficient, care-free and safe operation
- L.E.D.s indicate 'power on' and "FAST" and "FLOAT" charging modes
- Lightweight wall mounted plug-in or desk top design with screw type output terminals, depending on output current
- Connectors to the battery for all A-C charger models are alligator clips with insulated sleeves, with the exception of the PSC-1210000A-C which uses automotive style clamp connectors
- Protected against accidental reverse polarity connection
- U.I. and European C.E. approval

## Operating Characteristics

"A-C" series chargers are new "switching" type devices which operate without the use of transformers. I.C.'s control and regulate current and voltage and automatically switch from the higher fast charge voltage to the lower float voltage when batteries are very close to being fully charged. At the float voltage it is safe to leave the battery connected to the charger indefinitely, making charging pretty much fool-proof.

In the fast charge mode voltage goes up to 2.45V +/- 0.05V before switching, in the float charge mode voltage is held between 2.25- 2.30V/cell.

This charger is ideal for cyclic applications where recharge time is critical and timely charge termination cannot be counted on. This charger ensures optimum battery performance & service life.

## Specifications

Model	Nominal Voltage	Output Voltage Float/Fast Charge	Output Current mA	Type Automatic	Dimensions: in. (mm)			Weight		Charger Design
					Length	Width	Height	lbs.	kgs.	
PSC-6300A-C	6	6.75 / 7.35	300	dual rate	2.05 (52)	1.57 (40)	2.64 (67)	0.21	0.10	Plug-in
PSC-6500A-C	6	6.75 / 7.35	500	dual rate	2.05 (52)	1.57 (40)	2.64 (67)	0.21	0.10	Plug-in
PSC-61000A-C	6	6.75 / 7.35	1000	dual rate	2.24 (57)	1.73 (44)	3.23 (82)	0.30	0.14	Plug-in
PSC-64000A-C	6	6.75 / 7.35	4000	dual rate	5.43 (138)	2.83 (72)	1.65 (42)	0.90	0.41	Desk Top
PSC-12300A-C	12	13.50 / 14.70	300	dual rate	2.05 (52)	1.57 (40)	2.64 (67)	0.21	0.10	Plug-in
PSC-12500A-C	12	13.50 / 14.70	500	dual rate	2.24 (57)	1.73 (44)	3.23 (82)	0.30	0.14	Plug-in
PSC-12800A-C	12	13.50 / 14.70	800	dual rate	2.24 (57)	1.73 (44)	3.23 (82)	0.30	0.14	Plug-in
PSC-122000A-C	12	13.50 / 14.70	1800	dual rate	5.43 (138)	2.83 (72)	1.65 (42)	0.90	0.41	Desk Top
PSC-124000A-C*	12	13.50 / 14.70	4000	dual rate	5.43 (138)	2.83 (72)	1.65 (42)	0.90	0.41	Desk Top
PSC-1210000A-C**	12	13.50 / 14.70	10000	dual rate	8.80 (224)	5.17 (131)	3.33 (85)	4.30	1.95	Desk Top
PSC-241000A-C	24	27.00 / 29.40	1000	dual rate	5.43 (138)	2.83 (72)	1.65 (42)	0.90	0.41	Desk Top

Note: All plug-in design have 39" (1m) leads. All desktop design have 59" (1.5m) input leads and 39" (1m) output leads.

\* Charger switches to float if automatic conditions are not met after 12-13 hours.

\*\* Please note, the PSC-1210000A-C uses clamp connectors and is only available for use with input voltages of 90-132V 60 Hz. This charger is ideally suited for batteries from 40-100AH.

## Charger Selection Guide

Charger Model	Max Output (mA)	Use with Battery		UL Certified	BC Certified	CE Certified
		Voltage	Capacity			
PSC-6300A-C	300	6	1-3 AH	YES	NO	YES
PSC-6500A-C	500	6	2-5 AH	YES	NO	YES
PSC-61000A-C	1000	6	5-10 AH	YES	NO	YES
PSC-64000A-C	4000	6	10-40 AH	YES	NO	YES
PSC-12300A-C	300	12	1-3 AH	YES	NO	YES
PSC-12500A-C	500	12	2-5 AH	YES	NO	YES
PSC-12800A-C	800	12	4-8 AH	YES	NO	YES
PSC-122000A-C	1800	12	8-20 AH	YES	NO	YES
PSC-124000A-C	4000	12	18-35 AH	YES	YES	YES
PSC-1210000A-C**	10000	12	40-100 AH	NO	NO	NO
PSC-241000A-C	1000	24	5-10 AH	YES	NO	YES

\*\* Please note, the PSC-1210000A-C uses clamp connectors and is only available for use with input voltages of 90-132V 60 Hz. This charger is ideally suited for batteries from 40-100AH.

## Calculating Recharge Time

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.

To ensure safe and efficient operation always refer to our Charger Operating Instructions, as published on our website.



**Power-Sonic does not offer chargers for batteries with capacities higher than 100 AH. If you have any queries or difficulties in locating a suitable charger for batteries above 100AH, our Technical department will be happy to help.**

## Contact Information

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