



ACX SERIES

BATTERY CHARGERS

For SLA Batteries

OPERATING CHARACTERISTICS

“ACX” series chargers are new “switching” type devices which operate without the use of transformers. Integrated circuits control and regulate current and voltage and automatically switch from higher fast charge voltage to 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 easy and worry free.

In the fast charge mode voltage reaches 2.45V +/- 0.05V before switching to the float charge mode where 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 must be counted on. This charger ensures optimum battery performance & service life.



FEATURES

- Universal input voltage range 100VAC - 240VAC
- Automatic current sensing dual-rate charging for efficient, care-free, and safe operation
- LED indicators
- Alligator clip connectors with insulated sleeves
- Power Sport terminals available

APPROVALS

- ISO9001:2015 – Quality management systems
- DOE compliant
- CE compliant
- FCC compliant
- ETL approved
- Approved for transport by air - DOT, IATA, F.A.A. and CAB certified

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 hours. by the rated output current of the charger. Then multiply the resulting number of hours by a factor of 1.25 to compensate for the declining output current during the charge cycle. If the amount of amp hours. discharged from the battery is known, use it in place of the battery’s capacity to make the calculation.

SPECIFICATIONS

Model	Nominal Voltage	Output Voltage Float/Fast Charge	Output Current mA	Type Automatic	Dimensions: inch (mm)			Weight		Charging Capacity Range
					Length	Width	Height	lbs.	kgs.	
PSC-6500ACX	6	6.7 / 7.35	500	dual rate	3.15 (80)	2.24 (57)	1.97 (50)	0.20	0.09	2Ah to 5Ah
PSC-61000ACX	6	6.7 / 7.35	1000	dual rate	3.15 (80)	2.24 (57)	1.97 (50)	0.20	0.09	5Ah to 12Ah
PSC-12500ACX	12	13.3 / 14.70	500	dual rate	3.15 (80)	2.24 (57)	1.97 (50)	0.20	0.09	2Ah to 5Ah
PSC-121000ACX	12	13.3 / 14.70	1000	dual rate	3.15 (80)	2.24 (57)	1.97 (50)	0.20	0.09	5Ah to 12Ah
PSC-124000ACX	12	13.7 / 14.70	4000	dual rate	5.43 (138)	2.83 (72)	1.65 (42)	0.95	0.43	12Ah to 40Ah
PSC-126000ACX	12	13.7 / 14.70	6000	dual rate	6.50 (165)	3.74 (95)	2.36 (60)	1.79	0.81	20Ah to 60Ah
PSC-1212000ACX	12	13.7 / 14.70	12000	dual rate	8.19 (208)	5.12 (130)	3.23 (82)	3.31	1.50	40Ah to 120Ah

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FURTHER INFORMATION

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities. If you have any queries or need help choosing a charger please contact our technical team who will be happy to help.