# A&F Series Transformer Type Battery Chargers
## FOR SLA BATTERIES

## 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. 122000A and 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.

## Operating Characteristics

**"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.

**"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.

## Specifications

| Model | Nominal Voltage | Output Voltage Float/Fast | Output Current (mA) | Type | Dimensions: in. (mm) | | | Weight lbs. (kg) |
|---|---|---|---|---|---|---|---|---|
| | | | | | Length | Width | Height | |
| PSC-6250F | 6 | 6.83 / NA | 400 | Fixed volt float | 2.20 (56) | 1.96 (50) | 1.88 (48) | 0.50 (0.23) |
| PSC-6250A | 6 | 6.75 / 7.35 | 400 | Dual Rate | 2.20 (56) | 1.96 (50) | 1.88 (48) | 0.50 (0.23) |
| PSC-6300A | 6 | 6.84 / 7.35 | 300 | Dual Rate | 2.75 (69) | 2.75 (70) | 3.75 (95) | 1.36 (0.62) |
| PSC-61000A | 6 | 6.84 / 7.35 | 1000 | Dual Rate | 2.75 (70) | 2.75 (70) | 3.75 (95) | 1.36 (0.62) |
| PSC-12800A | 12 | 13.68 / 14.70 | 800 | Dual Rate | 2.75 (69) | 2.75 (70) | 3.75 (95) | 1.36 (0.62) |
| PSC-122000A | 12 | 13.50 / 14.70 | 2000 | Dual Rate | 5.55 (141) | 3.60 (91) | 2.89 (73) | 3.80 (1.73) |
| PSC-124000A | 12 | 13.50 / 14.70 | 4000 | Dual Rate | 6.65 (169) | 5.30 (135) | 3.40 (86) | 7.40 (3.36) |
| PSC-124000AP | 12 | 13.50 / 14.70 | 2,500/2,200 | Charger/Pwr. Supply | 6.65 (169) | 5.30 (135) | 3.40 (86) | 7.40 (3.36) |

# SLA Charger Selection Guide

| Charger Model | Max Output (mA) | Use with Battery | | U.L./CSA Listing |
|---|---|---|---|---|
| | | Voltage | Capacity | |
| PSC-6250F† | 400 | 6 | 0.5 - 2 AH | U.L. |
| PSC-6250A† | 400 | 6 | 1 - 3 AH | U.L. |
| PSC-6300A | 300 | 6 | 1 - 3 AH | CSA/NRTL* |
| PSC-61000A | 1000 | 6 | 5 - 10 AH | CSA/NRTL* |
| PSC-12800A | 800 | 12 | 4 - 8 AH | CSA/NRTL* |
| PSC-122000A** | 2000 | 12 | 8 - 20 AH | CSA |
| PSC-124000A** | 4000 | 12 | 20 - 40 AH | CSA |
| PSC-124000AP*** | 3500 | 12 | 12- 40 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 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.

BSI REGISTERED FIRM

CE EMC tested Germany — Certificate of CE

MH20845 — Certificate of UL

Certificate of ISO9001

**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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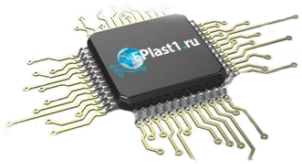
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

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