

# Model SLA250PCB Battery Charger

## General Specification

The SLA250PCB constant-voltage, current-limited charger for sealed lead acid batteries is suitable for standby and cyclic applications. The output current is preset for use with either 6V, 12V or 24V batteries up to the maximum specified charge current. The output voltage is factory preset for battery type and operation, cyclic or float. A small adjustment of the charge termination voltage is available via variable resistor VR1.

Model	SLA250PCB		
<b>Battery Voltage</b>	6V	12V	24V
<b>Output Current</b>	320mA	200mA	150mA
<b>Battery Capacity</b>	1-4Ah	1-3Ah	1-2Ah
<b>Input Voltage</b>	230Vac $\pm$ 10%, 50Hz		
<b>Thermal Fuse</b>	Yes		
<b>Led Indicator</b>	Red led on when pcb is powered		
<b>Mass</b>	0.2kg		

**Connection:** Ensure unit is wired for the correct mains voltage. **Do not** connect the unused 'L' terminal to anything. The unit is preset to operate in standby charge mode. Observe output polarity when making battery connection.

**Standby Mode:**

Charge voltage per cell: 2.25-2.3V (@20°C)

6V operation: 6.75-6.9V

12V operation: 13.5-13.8V

24V operation: 27.0-27.6V

**Cyclic Mode:**

Charge voltage per cell: 2.35-2.5V (@20°C)

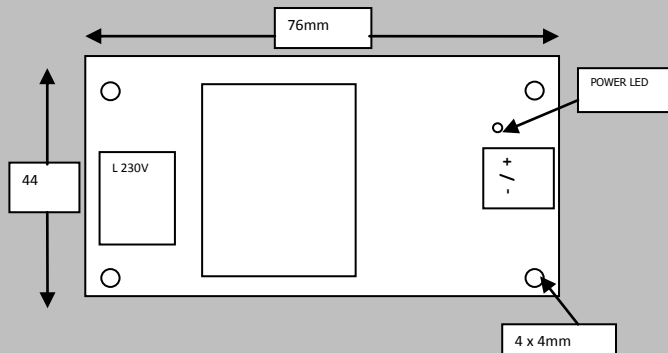
6V operation: 7.2-7.5V

12V operation: 14.4-15.0V

24V operation: 28.8-30.0V

**Mounting:**

The unit may be secured using the four corner holes. Open pcb's are designed for indoor use unless protected inside suitable housing. It is the responsibility of the system integrator to meet safety and functional requirements.



**Note:** The card must be mounted to provide adequate insulation requirements for the application. Attention should be paid to allowing sufficient cooling/ ventilation around the pcb in all eventualities of operation. The heatsink can get very hot.

## **User Adjustment:**

### **Charger Output Voltage:**

Connect 100R 2W resistor across battery screw terminal connector and adjust preset VR1 until voltage across the resistor is within limits specified above. If the battery is to operate continuously above or below 20°C, the voltage should be adjusted as follows: Standby:-  $-3\text{mV}/^{\circ}\text{C}/\text{cell}$  Cyclic:-  $-4\text{mV}/^{\circ}\text{C}/\text{cell}$

### **Power Supply Mode:**

The SLA250PCB may be used as a regulated current limited power supply.

### **Non-Earthed Operation:**

The unit provides suitable creepage/ clearance for non-earthed 'double insulated' application if mounted in a suitable housing with suitable mounting insulation.

Refer to applicable standards for your product type (e.g. EN60950).