

### Automatic Switch Mode Battery Charger

Model  
SEC-1250UL  
50 Amps  
12 VDC



**2 YEAR WARRANTY**



### Design Features

- Switch mode technology for high efficiency, lightweight and quiet operation
- Automatic operation for ALL Lead Acid Batteries Flooded, AGM or Gel Cell
- Can charge 2 banks of batteries simultaneously, no isolator necessary
- Can be used as a power supply or DC UPS when used in conjunction with a battery
- User Configurable AC Input voltage 120 or 230 VAC, 50 / 60 Hz
- User Selectable ( by DIP Switch) for 2 or 3 stage, rapid and safe charging of stand-alone and loaded Lead Acid Batteries
- "Half Power Mode" reduces maximum charging current to half the rated capacity, allows for safe charging of lower capacity batteries
- Voltmeter and Ammeter for monitoring
- Fan cooled based on output current
- Protections: Short circuit, overload, reverse battery connection and over temperature
- Optional remote LED panel with 33' cable (model: 900-RC) for remote ON/OFF control and indication of charging status
- Includes temperature sensor to prevent under/overcharging of battery if temperature varies extensively
- Safety certified and listed to UL Standard UL-1564
- EMI Compliant to FCC Part 15(B), Class B

| MODEL NO.   | SEC-1250UL  |
|---|---|
| <b>NOMINAL INPUT VOLTAGE</b>  |   |
| Factory Preset  | 120 VAC, 50 / 60 Hz (108 to 132 VAC)  |
| By Changing Internal Jumper   | 230 VAC, 50 / 60 Hz (207 to 253 VAC)  |
| <b>INPUT CURRENT</b>  |   |
| At 120 VAC input / At 230 VAC input   | 10.4A / 5.6A  |
| <b>OUTPUT VOLTAGE (NOTE: voltages are applicable at battery temperature of 77°F / 25°C)</b> |   |
| Bulk "I Phase"  | 13.5V ± 0.05V   |
| Absorption "Uo Phase"   | 14V / 14.4V ± 0.05V   |
| Float "U Phase"   | 13.5V ± 0.05V   |
| <b>MAXIMUM BULK CHARGING CURRENT, I</b>   |   |
| Normal Operation  | 50A   |
| Half Power Mode   | 25A ± 1A  |
| <b>THRESHOLD OF CURRENT FOR CHANGE OVER</b>   |   |
| From Float "U" To Absorption "Uo"   | 10A ± 1A  |
| From Absorption "Uo" To Float "U"   | 5A ± 0.5A   |
| <b>DURATION OF ABSORPTION STAGE "Uo"</b>  | 4 Hrs or 8 Hrs (Switch selectable)  |
| <b>MAXIMUM BATTERY CAPACITY</b>   | 500 Ah  |
| <b>TEMPERATURE COMPENSATION</b>   | Yes, with temperature sensor TF-500   |
| <b>WIRED REMOTE PANEL (OPTIONAL)</b>  | Yes, (model 900-RC)   |
| <b>COOLING</b>  | Load Controlled Fan - ON at 10A ± 1A; OFF at 5A ± 0.5A  |
| <b>PROTECTIONS</b>  | Overload, Short Circuit, Reverse Polarity, Over Temperature   |
| <b>OUTPUT BANKS</b>   | 2   |
| <b>OUTPUT CONNECTORS</b>  | Terminals with tubular holes (8 mm / 0.315" Dia) and set screw (M8)                                 |
| <b>OPERATING TEMPERATURE RANGE</b>  | 0° - 40°C / 32°F - 104°F  |
| <b>FUSES - AC INPUT SIDE (6.3 mm x 32 mm / .25" x 1.26")</b>                                | Slow Blow / Time Delay - 12A / 250V   |
| <b>FUSES - DC OUTPUT SIDE Automotive Blade Type e.g. Littelfuse "ATO" Series</b>            | 32V, 60A (2 pieces of 30A in parallel)  |
| <b>DIMENSIONS (L x W x H)</b>   | 331 x 244 x 97 mm / 13.03 x 9.60 x 3.82 inches  |
| <b>WEIGHT</b>   | 4.1 kg / 9.0 lb   |
| <b>SAFETY COMPLIANCE</b>  | Intertek - ETL Listed. Conforms to ANSI / UL STD 1564<br>Certified to CAN / CSA STD C22.2 No. 107.2 |
| <b>EMI COMPLIANCE</b>   | FCC Part 15(B), Class B   |

NOTE: Specifications are subject to change without notice