



## Automatic Switch Mode Battery Charger

Model  
SEC-1250UL  
50 Amps  
12 VDC

### 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-1250UI
<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 Certified to CAN / CSA STD C22.2 No. 107.2
<b>EMI COMPLIANCE</b>	
	FCC Part 15(B), Class B