



## Automatic Switch Mode Battery Charger

Model  
SEC-2440UL  
40 Amps  
24 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 10m of wire (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
- Intertek ETL Listed to meet UL Standard UL-1564, EMI Compliant to FCC Part 15(B), Class B

**2 YEAR LIMITED WARRANTY**



MODEL NO.	SEC-2440UL
<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	15.3A / 8.3A
<b>OUTPUT VOLTAGE (NOTE: voltages are applicable at battery temperature of 77°F / 25°C)</b>	
Bulk "I Phase"	27.0V ± 0.05V
Absorption "Uo Phase"	28V / 28.8V ± 0.05V
Float "U Phase"	27.0V ± 0.05V
<b>MAXIMUM BULK CHARGING CURRENT, I</b>	
Normal Operation	40A
Half Power Mode	20A ± 1A
<b>THRESHOLD OF CURRENT FOR CHANGE OVER</b>	
From Float "U" To Absorption "Uo"	8A ± 1A
From Absorption "Uo" To Float "U"	4A ± 0.5A
<b>DURATION OF ABSORPTION STAGE "Uo"</b>	4 Hrs or 8 Hrs (Switch selectable)
<b>MAXIMUM BATTERY CAPACITY</b>	400 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 8A ± 1A; OFF at 4A ± 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>	-20 to 40°C / -4 to 104°F
<b>FUSES - AC INPUT SIDE (6.3 mm x 32 mm / .25" x 1.26")</b>	Slow Blow / Time Delay - 20A / 250V
<b>FUSES - DC OUTPUT SIDE Automotive Blade Type e.g. Littelfuse "ATO" Series</b>	32V, 45A (3 pieces of 15A in parallel)
<b>DIMENSIONS (L x W x H)</b>	381 x 244 x 97 mm / 15 x 9.61 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

NOTE: Specifications are subject to change without notice

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