



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
- Safety certified and listed to UL Standard UL-1564
- EMI Compliant to FCC Part 15(B), Class A



Model No.	SeC-2440UI
NOMINAL INPUT VOLTAGE	
Factory Preset	120 VAC, 50 / 60 Hz (108 to 132 VAC)
By Changing Internal Jumper	230 VAC, 50 / 60 Hz (207 to 253 VAC)
INPUT CURRENT	
At 120 VAC input / At 230 VAC input	15.3A / 8.3A
OUTPUT VOLTAGE (NOTE: voltages are applicable at battery temperature of 77°F / 25°C)	
Bulk "I Phase"	27.0V ± 0.05V
Absorption "Uo Phase"	28V / 28.8V ± 0.05V
Float "U Phase"	27.0V ± 0.05V
MAXIMUM BULK CHARGING CURRENT, I	
Normal Operation	40A
Half Power Mode	20A ± 1A
THRESHOLD OF CURRENT FOR CHANGE OVER	
From Float "U" To Absorption "Uo"	8A ± 1A
From Absorption "Uo" To Float "U"	4A ± 0.5A
DURATION OF ABSORPTION STAGE "Uo"	4 Hrs or 8 Hrs (Switch selectable)
MAXIMUM BATTERY CAPACITY	400 Ah
TEMPERATURE COMPENSATION	Yes, with temperature sensor TF-500
WIRED REMOTE PANEL (OPTIONAL)	Yes, (model 900-RC)
COOLING	Load Controlled Fan - ON at 8A ± 1A; OFF at 4A ± 0.5A
PROTECTIONS	Overload, Short Circuit, Reverse Polarity, Over Temperature
OUTPUT BANKS	2
OUTPUT CONNECTORS	Terminals with tubular holes (8 mm / 0.315" Dia) and set screw (M8)
OPERATING TEMPERATURE RANGE	0° - 40°C / 32°F - 104°F
FUSES - AC INPUT SIDE (6.3 mm x 32 mm / .25" x 1.26")	Slow Blow / Time Delay - 20A / 250V
FUSES - DC OUTPUT SIDE Automotive Blade Type e.g. Littelfuse "ATO" Series	32V, 45A (3 pieces of 15A in parallel)
DIMENSIONS (L x W x H)	381 x 244 x 97 mm / 15 x 9.61 x 3.82 inches
WEIGHT	4.1 kg / 9.0 lb
SAFETY COMPLIANCE	Intertek - ETL Listed. Conforms to ANSI / UL STD 1564 Certified to CAN / CSA STD C22.2 No. 107.2
EMI COMPLIANCE	FCC Part 15(B), Class B