



samlexamerica®

40A



### 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

2 YEAR WARRANTY



#### MODEL NO.

SEC-2440UL

#### 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 "U<sub>o</sub> 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 "U<sub>o</sub>"

8A ± 1A

From Absorption "U<sub>o</sub>" To Float "U"

4A ± 0.5A

#### DURATION OF ABSORPTION STAGE "U<sub>o</sub>"

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

NOTE: Specifications are subject to change without notice

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