



## Automatic Switch Mode Battery Charger

Model  
SEC-1230UL  
30 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 3 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
- Ammeter & LED power status indicator
- Protections: Short circuit, overload, reverse battery polarity
- Fan cooled

**2 YEAR LIMITED WARRANTY**



MODEL NO.		SEC-1230UL
INPUT	NOMINAL INPUT VOLTAGE AND FREQUENCY	120 VAC, 50 / 60 Hz (Default) ; 230 VAC, 50 / 60Hz (Internal jumper setting)
	AC INPUT CURRENT	(i) At 120 VAC: 6.5A, (ii) At 230 VAC: 3.5A
	AC INPUT CONNECTION	Attached Power Cord: 6 ft length ; 3 x 18AWG wire size ; NEMA5-15P Plug
OUTPUT	CHARGING CURRENT	30A
	CHARGING STAGES	3 Stages (DIP Switch setting - Default): Bulk, Absorption and Float 2 Stages (DIP Switch setting): Bulk and Float
	CHARGING VOLTAGES	Absorption: 14.4 VDC (Default) ; 14.0 VDC (DIP Switch setting) ; Disable (DIP Switch setting)
	NO. OF CHARGING BANKS	3
	OUTPUT CONNECTIONS	Tubular Hole with Set Screw ; Hole Diameter: 4.8 mm / 0.19 in
MONITORING	LED DISPLAY	Red LED: Output is available
	ANALOGUE METER	Ammeter: 0 to 30A
COOLING	TYPE OF COOLING	Temperature controlled fan: • On when power transformer temperature rises to 60°C / 140°F • Off when cools down to 50°C / 122°F
PROTECTIONS	OUTPUT SHORT CIRCUIT	No output voltage. Auto reset on removal of short
	INPUT OVERLOAD	8A input side fuse will blow (120 VAC input)
	OUTPUT OVERLOAD	Electronic current limit at 30A
	REVERSE POLARITY ON OUTPUT SIDE	2 x 20A output side fuse will blow
	OVER TEMPERATURE SHUT DOWN	Power transformer temperature rises to 105°C / 221°F
FUSES	INTERNAL AC INPUT SIDE FUSE (120 VAC OPERATION)	8A, 250V; Size 6.3mm x 32mm; Time Delay Type Mfr.: Littelfuse 0313008 or equivalent
	INTERNAL AC INPUT SIDE FUSE (230 VAC OPERATION)	4A, 250V; Size 6.3mm x 32mm; Time Delay Type Mfr.: Littelfuse 0313004 or equivalent
	INTERNAL DC OUTPUT SIDE FUSE	2 x (32V, 20A); Automotive Blade Type; Fast Acting Mfr.: Littelfuse 0287020 or equivalent
ENVIRONMENT	OPERATING TEMPERATURE RANGE	-20°C to +40°C / -4°F to +104°F
	STORAGE TEMPERATURE	-30°C to +70°C / -22°F to +158°F
	RELATIVE HUMIDITY	Up to 90%, non condensing
	OPERATING CONDITIONS	Indoor, ventilated, cool and dust free
COMPLIANCE	SAFETY	Intertek-ETL Listed as follows: • Conforms to UL STD. 1564 • Certified to CSA STD. C22.2 No. 107.2
	EMI	FCC Part 15(B), Class B
DIMENSIONS	L x W x H	280 x 214 x 83 mm / 11.0 x 8.4 x 3.3 in
	WEIGHT	2.9 kg / 6.4 lbs

NOTES: 1. DC voltages are based on battery temperature of 86° F / 26.7°C  
2. Specifications are subject to change without notice

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