

### Features:

- The unit is equipped with a self diagnosis microprocessor that is able to identify and show all failure messages on the LED/LCD display, with associated visual/audio alarms
- Can use parallel with the grid AC
- Battery charger current 125A max. @12VDC
- Equalization function for the batteries.
- Built in 50A rated bypass switch.
- Power sharing functions.
- Intelligent software for power management
- Hard-wire connection model option.
- Loading and temperature controlled cooling fan
- Local and remote management and control
- RS-232 communication
- By a dry contact terminal
- Advanced protection features :
  - DC input over/under voltage protection
  - Internal over temperature, battery over temperature and heat sink over temperature
  - Inverter AC output overload protection
  - Inverter AC output short circuit protection
  - AC input short circuit protection: Breaker (50Amp)
  - AC input under / over voltage protection



Electical		Specification Item	SL-3000-112
Inverter Mode	Input	Nominal Voltage	12 VDC
		Absolute Max. DC Input	25 VDC
		HBCO/HBCI (High Battery Cut Out/In)	17 VDC±0.3V
		LBCO/LBCI (Low Battery Cut Out/In)	9 VDC±0.3V
		Input Voltage Range	9 ~ 17 VDC±0.3V
		Input Over-Voltage Protection	16.5 ~ 17 VDC
		Input Under-Voltage Protection	9 ~ 10.5 VDC
		Max. DC input current	400ADC
		AC Relay Transfer Time	<16 msec
		No Load Power Consumption	40W
	Stand-By Power Consumption	<8W	
	Output	Continuous Output Power	3000 VA
		Surge Power (real watts)	5 sec : 5100
			30 sec : 4800
			5 min : 4350
			30 min : 3450
		Frequency	60 Hz ± 0.1
Output Voltage		120 VAC ±5% (≤Continuous Power)	
Max. Efficiency	>90%		
Short-Circuit Protection	Yes		
Output Waveform	Pure Sine Wave (THD < 5%)		
Charger Mode	Charger	Battery Temperature Protection	By a RJ-11 connector to battery temperature sensor
		AC Input Voltage Range	80 ~ 140 VAC±5% (120VAC nominal)
		AC Input Frequency Range	50 ~ 70 Hz
		AC Input Current Range	5 ~ 50A*
		AC Nominal Current	18A
		Charger Efficiency (Peak)	85%
		Power Factor Correction(PFC)	>0.97 (50% Load)
		Charging Current Range	0 ~ 125A
		Battery Temperature Compensation	25 mV per °C
	Four-stage charging	Bulk, Absorb, Float, Equalize*	
	Equalization	Max. Output Voltage	16VDC
		Max. Output Current	10A
	Bypass Switch	Switch Specification (Max. each input)	AC 50 Amp
Note			*Setting by remote control

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Operating Temperature Range	Full Load	-20 ~ 40°C
	Power De-rating	60W / °C, -41 ~ 60°C (Tentative)
	Storage	-30 ~ 70°C
	Over-temperature Protection	Sensor On Transformer, MOSFETs, Battery, and Internal ambient
Operating Humidity Range	0 ~ 95% Non-condensing	
Ground Relay	Default is open, Use may connect neutral to ground at inverter mode if necessary, as ground relay is included in SL series	
Mechanical Spectification	Dimension (WxHxD)	321x203x349 mm / 12.638x7.992x13.74 inch
	Net Weight	22.6 kg / 49.78Lbs
Safety & EMS	Safety Standards	Certified UL458 & Supplement SA / UL1741
	EMC Standards	Certified FCC Class B

### Mechanical Drawings:

Unit : mm [inch]

