

SL Series



The SL power system is an inverter but also contains a powerful smart charger. It provides a pure sine wave power to all equipments.

The SL inverter is a heavy-duty, continuous working module generating a sinusoidal wave from a 12/24V - battery bank, which can supply energy to various loads such as resistive load (heater), inductive load (air conditioners, refrigerator), motors (vacuum cleaners), and rectifier load (computer). All SL series are designed to work in heavy load condition. Derating is not necessary. It provides a rapid and complete charging process.

The smart charger can be set with different charging profiles and battery capacities to match in various battery types and sizes. The switch module automatically diverts the energy transfer path between inverter and utility source. When the utility source is lower than the transfer level, the path switches to the inverter. Otherwise the load is conducted to the utility source. The transfer time is 1/4~1/2 of the total cycle time. The high power charger (40A) can charge a 24V/400 AH battery bank in 10 hours.

SL series is an extremely good choice for utility back up power. However, it also can be used as a UPS for computers.

An inverter, charger and switching box can be replaced with a single SL series unit.

FEATURES

- Pure sine wave output
- Continuous output inverter and high power battery charger included.
- Quiet, high-efficiency operation, high surge capacity and low idle current.
- Supply energy to various loads such as resistive load, inductive load, motors and rectifier load.
- Seamless transfer switching (grid / generator to battery and battery to grid / generator).
- Load sensing adjustable.
- Long backup time up to 10 hours (based on the battery bank and loads).

Model	SL 1012	SL 1512	SL 2012	SL 1024	SL 1524	SL 2024	SL 3024
Continuous Power	1000 Watts	1500 Watts	2000 Watts	1000 Watts	1500 Watts	2000 Watts	3000 Watts
Efficiency	85% max.			87% max.			
Output Waveform	Sine wave						
DC Power at Rated Power	120 amps	180 amps	240 amps	60 amps	90 amps	120 amps	180 amps
DC Power at Short Circuit	360 amps	540 amps	720 amps	180 amps	270 amps	360 amps	540 amps
Nominal Input Voltage	12 Vdc			24 Vdc			
DC Input Voltage Range	10.0 ~ 15 Vdc			20.0 ~ 30 Vdc			
Auto Low Battery Protection (Heavy/Light Load)	10.0/11.0 Vdc			20.0/22.0 Vdc			
DC mode output Voltage Regulation	±10%						
Power Factor Allowed	0.8 to 1						
T.H.D.	< 5%						
Power Factor Allowed	0.8 to 1						
Frequency Regulation	± 1 Hz						
Standard Output Voltage	120 / 220 / 230 Vac						
Loading Sensing (Power Saving)	150W ~ 220W						
Transfer Time	12 ms Max.						
Forced Air Cooling	Variable Speed						
Automatic Transfer Relay	15A		30A		15A		30A
Adjustable Charge current	4 ~ 40 A	5 ~ 50 A	8 ~ 80 A	2 ~ 20 A	2.5 ~ 25 A	4 ~ 40 A	6 ~ 60 A
Number of Charge Profiles	2						
Resistive Load	100%						
Inductive Load	Yes						
Motor Load	Yes						
Rectifier Load	Yes						
Wall Mounting	Yes						
Shipping Weight (kg)	16.12	18.45	23.21	15.79	18.56	20.21	25
Dimensions (mm)WxDxH	415x225x183		520x225x183		415x225x183		520x225x183