Products



Portable Inverter Box LS-I2400

- Supports mains and solar charging
- Supports 110V and 230V voltages
- Modular battery connection, with capacity expandable as required

The LS-I2400 portable inverter supports mains and solar charging, and offers a choice of 110V or 230V output. Its fully digital control technology achieves bidirectional conversion efficiency of up to 93 per cent, whilst featuring a UPS switchover function with a response time of less than 10 milliseconds, ensuring uninterrupted power supply to connected devices. The product features a stackable battery design, allowing capacity to be expanded as required, enabling users to configure the system flexibly according to their actual power needs.

It is suitable for a variety of scenarios, including emergencies, camping, farming, gardening and picnics.

Product Specification

Model	LS-I2400（120V）	LS-I2400（230V）
AC Output		
Output Waveform Type	Pure Sine Wave (THD < 3%)	
Rated Output Power	2400W	
Maximum Output Power	Time until constant power mode: 110% Time: Long-term 120% Time：≥43s 150% Time：≥13s 200% Time：≥0.2s	
AC Output Voltage	The factory default setting is 110 VAC.	The factory default setting is 230 VAC.
AC Output Frequency	The factory default setting is 60 Hz ± 0.1 Hz.	The factory default setting is 50 Hz ± 0.1 Hz.
AC Efficiency	91%	
Harmonic Distortion	<3%(@load=100%/230VAC	
Start-up and Rise Time	≤1000ms	≤2600ms
Power Factor	0.98/110 VAC (at full load)	0.98/230 VAC (at full load)
AC Adjustment Rate	±3.0% of the rated output voltage	
UPS AC Input => AC Output		

Model	LS-I2400（120V）	LS-I2400（230V）
Output Voltage	AC Input = AC Output (Do not short-circuit the output)	
Output Frequency	AC Input Frequency = AC Output Frequency	
Short-Circuit Protection	Do Not Short-Circuit	
UPS Switchover Time	≤10ms	
AC Input (Triangle-shaped Plug)		
Maximum Input Power	2400 W (Refer to the maximum input power of the UPS function)	
Frequency Range	47~63Hz	
AC Voltage Range	85~135VAC	176~264VAC
AC Input Current	10A/110VAC	10A/230VAC
Efficiency	91%	93%
Harmonic Distortion	<3%(@load=100%/110 VAC	<3%(@load=100%/230V AC
Power Factor	0.98/110 VAC (at full load)	0.98/230 VAC (at full load)
Leakage Current	<2mA/110VAC	<2mA/230VAC
Inrush Current	Cold Start 35A/110VAC	Cold Start 35A/230VAC

Product Specification

Model	LS-I2400（120V）	LS-I2400（230V）
Overload Switch	15A/110VAC (manual reset)	15A/230VAC (manual reset)
DC Output (Battery Charging Parameters)		
Rated Output Voltage	51.2V	
Rated Output Current	50A	
Rated Output Power	2000W	
Charging Voltage Range	40.0-58.4V	
Charging Current Range	0-50A	
Voltage Accuracy	±1.0%	
Linear Adjustment Rate	±0.5%	
Load Adjustment Rate	±0.5%	
Ripple and Noise	300mVp-p	
Voltage Regulation Accuracy	2%	
Solar/MPPT Input (XT60)		
Interface Types	XT60 (MC4-to-XT60 Adapter Cable)	

Model	LS-I2400（120V）	LS-I2400（230V）
MPPT Charging Efficiency	98%	
Open Circuit Voltage Range	12-76V	
MPPT Voltage Range	12–72 V (depends on solar irradiance)	
Solar Input Current	0–20 A (depends on solar irradiance)	
Solar Input Power	800W	
Car Charger Input		
Interface Types	XT60 (Car Charger Adapter—XT60 Adapter Cable)	
Input Voltage	12-15V	
Input Current	10A MAX	
Undervoltage Protection	If the vehicle's voltage drops below 12V, stop charging to prevent the car battery from running out of power and failing to start the engine.	
TYPE-C		
Output Power	60W	
Output Voltage and Current	5V=3A ; 9V=3A ; 12V=3A ; 15V=3A ; 20V=3A	

Product Specification

Model	LS-I2400（120V）	LS-I2400（230V）
Supported Output Protocols	APPLE PD2.0;PD3.0;QC2.0;QC3.0;PE1.1;BC1.2;FCP;AFC;SCP	
Overcurrent Protection	Protection Mode: Restart the DC after the fault has been cleared.	
Short-Circuit Protection	Protection Mode: Restart the DC after the fault has been cleared.	
USBA		
Output Power	18W	
Output Voltage and Current	5V=3A ; 9V=2A ; 12V=5A	
Supported Output Protocols	APPLE;QC2.0;QC3.0;PE1.1;BC1.2;FCP;AFC;SCP	
Overcurrent Protection	Protection Mode: Restart the DC after the fault has been cleared.	
Short-Circuit Protection		
DC5521 CAR Output		
Voltage Range	12.5-13.5VDC	
Current Range	10A	
Output Voltage Ripple	240mVp-p	
Overcurrent Protection	12A	

Model	LS-I2400（120V）	LS-I2400（230V）
Short-Circuit Protection	Protection Mode: Restart the DC after the fault has been cleared.	
LED Lighting		
LED Output Power	5W	
LED Output Current	200mA	
LED Lighting Modes	Dark - Bright - SOS - Strobe	
Protection		
Overtemperature	Disconnect the output voltage; manually restore power once the temperature has dropped.	
Overload	110%–200% of the rated output current	
	Protection Mode: The output voltage is disconnected; the power supply must be restarted once the abnormal load condition has been resolved.	
Short-Circuit Protection	If the output impedance is less than 0.1 ohms, the power supply will activate its protection circuit.	
	Protection Mode: The output voltage is disconnected; the power supply must be restarted once the abnormal load condition has been resolved.	
Environment		

Product Specification

Model	LS-I2400（120V）	LS-I2400（230V）
Noise in the Workplace	≤60dB	
Operating Temperature	-10 ~ +40℃	
Operating Humidity	20–90% RH, non-condensing	
Storage Temperature and Humidity	-25 ~ +75℃，10-95%RH	
Temperature Coefficient	±0.03%/℃（0-50℃）	
Safety Standards and Electromagnetic Compatibility		
Standards	CE-LVD EN 62368-1CE-EMC EN 55032 EN 55035 EN61000-3-2 EN 61000-3-3 UL 2743;FCC SDOC;FCC Part 15;PSE-EMC (H29);J55032	