



# Solar Inverter

# LS Series



LS-300  
LS-400



LS-600



LS-1000  
LS-1500



## Features

- Bi-directional Inverter / Solar Charge Controller
- Microcontroller Integrated
- LED Indicators for Inverter and Controller States
- Input & Output Fully Isolation
- Intelligent Temp & Load Cooling Fan
- Aluminum Housing
- Multi Pre-Alarm & Shutdown Alarm Protections: Battery Type Detection / Polarity Reverse / Low Voltage / Short Circuit / Overheat / Overload
- 100% Made in Taiwan

Model		LS-300	LS-400	LS-600	LS-1000	LS-1500
<b>System</b>						
Continuous Power		300W	400W	600W	1000W	1500W
Surge Power		900W	1200W	1500W	2400W	3000W
Output Voltage		100/110/120 VAC; 220/230/240 VAC				
Output Waveform		Modified Sine Wave				
Standby Current (Normal)	DC 12V	< 0.4A	< 0.5A	< 0.6A	< 0.7A	
	DC 24V	< 0.3A	< 0.4A	< 0.5A	< 0.6A	
Output Regulation		< ±5% Intelligent AVR			< ±5% Intelligent PWM	
Output Frequency		50/55/60 Hz Crystal Controlled				
Input Voltage		DC 12V: 10~15V; DC 24V: 20~30V				
Efficiency		> 85%				
<b>Protection</b>						
Input Type Auto-Detection		YES				
Input Polarity Reverse Prot.		Fuse				
Input Low Voltage Prot.		DC 12V: < 10.5V Pre-Alarm, < 9.5V Shutdown & Alarm DC 24V: < 21.5V Pre-Alarm, < 20V Shutdown & Alarm				
Short Circuit Prot.		YES				
Overheat		> 60°C Pre-Alarm, > 65°C Shutdown & Alarm				
Overload		> 100% Pre-Alarm, > 110% Shutdown & Alarm				
Cooling		Intelligent Fan				
<b>Mechanical</b>						
Fuse	DC 12V	35A x 1PCS	40A x 1PCS	25A x 3PCS	25A x 6PCS	35A x 8PCS
	DC 24V	20A x 1PCS	35A x 1PCS	15A x 3PCS	15A x 6PCS	20A x 8PCS
AC Outlets		EU:1				
Dimension (L x W x H)		200 x 173 x 65 mm		280 x 173 x 65 mm	360 x 195 x 80 mm	420 x 195 x 80 mm
Net Weight		1.6 kg		2.8 kg	3.8 kg	4.5 kg
RC (Standard) Accessory		-	-	-	YES	
<b>Solar Controller</b>						
Charge Current		20A				
Standby Current		< 30mA				
Charge Stage		PWM -> Float				
Charge Battery Supported		NI-CAD, GLE/AGM, FLOODED, SEALED/WET Select by DIP Switch				
Max Solar Array Voc		50V				
Max Solar Array Current		20A				
Max Load Current		20A				
Efficiency		> 90%				
Battery Low Voltage Protection		DC 12V: 10 ± 0.5V; DC 24V: 20 ± 1.0V				
Battery Low Voltage Reset		DC 12V: 12.5 ± 0.5V; DC 24V: 25.0 ± 1.0V				
Output Overheat Protection		> 65°C ± 5°C Shutdown & Alarm				
Output Overload Protection		YES (120% of Rated Current)				



LS-2000  
LS-2500 LS-4000  
LS-3000 LS-5000



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Model	LS-2000		LS-2500		LS-3000		LS-4000		LS-5000		
<b>System</b>											
Continuous Power	2000W		2500W		3000W		4000W		5000W		
Surge Power	4000W		5000W		6000W		8000W		10000W		
Output Voltage	100/110/120 VAC; 220/230/240 VAC										
Output Waveform	Modified Sine Wave										
Standby Current (Normal)	DC 12V	< 0.7A					< 0.9A				
	DC 24V	< 0.6A					< 0.8A				
Output Regulation	< ±5% Intelligent PWM										
Output Frequency	50/55/60 Hz Crystal Controlled										
Input Voltage	DC 12V: 10~15V; DC 24V: 20~30V										
Efficiency	> 85%										
<b>Protection</b>											
Input Type Auto-Detection	YES										
Input Polarity Reverse Prot.	Fuse										
Input Low Voltage Prot.	DC 12V: < 10.5V Pre-Alarm, < 9.5V Shutdown & Alarm DC 24V: < 21.5V Pre-Alarm, < 20V Shutdown & Alarm										
Short Circuit Prot.	YES										
Overheat	> 60°C Pre-Alarm, > 65°C Shutdown & Alarm										
Overload	> 100% Pre-Alarm, > 110% Shutdown & Alarm										
Cooling	Intelligent Fan										
<b>Mechanical</b>											
Fuse	DC 12V	25A x 12PCS	25A x 16PCS	30A x 16PCS	25A x 24PCS	30A x 24PCS					
	DC 24V	15A x 12PCS	15A x 16PCS			10A x 24PCS	15A x 24PCS				
AC Outlets	EU:2										
Dimension (L x W x H)	420 x 169 x 152 mm						560 x 169 x 152 mm				
Net Weight	7.6 kg						11.6 kg				
RC (Standard) Accessory	YES										
<b>Solar Controller</b>											
Charge Current	30A										
Standby Current	< 30mA										
Charge Stage	PWM -> Float										
Charge Battery Supported	NI-CAD, GLE/AGM, FLOODED, SEALED/WET Select by DIP Switch										
Max Solar Array Voc	50V										
Max Solar Array Current	30A										
Max Load Current	30A										
Efficiency	> 90%										
Battery Low Voltage Protection	DC 12V: 10 ± 0.5V, DC 24V: 20 ± 1.0V										
Battery Low Voltage Reset	DC 12V: 12.5 ± 0.5V, DC 24V: 25.0 ± 1.0V										
Output Overheat Protection	> 65°C ± 5°C Shutdown & Alarm										
Output Overload Protection	YES (120% of Rated Current)										