



Solar Hybrid Inverter

LS-H Series

LS-300H
LS-400H
LS-600H



LS-1000H
LS-1500H



Features

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

Model		LS-300H	LS-400H	LS-600H	LS-1000H	LS-1500H
System						
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	< 0.5A	< 0.6A	< 0.6A	< 0.8A	
	DC 24V	< 0.4A	< 0.5A	< 0.5A	< 0.7A	
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%				
Protection						
Input Type Auto-Detection		YES				
Input Polarity Reverse		Fuse				
Input Low Voltage		DC 12V: < 10.5V Pre-Alarm, < 9.5V Shutdown & Alarm DC 24V: < 21.5V Pre-Alarm, < 20V Shutdown & Alarm				
Short Circuit		YES				
Overheat		> 60°C Pre-Alarm, > 65°C Shutdown & Alarm				
Overload		> 100% Pre-Alarm, > 110% Shutdown & Alarm				
Cooling		Intelligent Fan				
Mechanical						
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)		294 x 173 x 65 mm			360 x 195 x 80 mm	420 x 195 x 80 mm
Net Weight		1.7 kg		2.8 kg	3.8 kg	4.5 kg
RC (Standard) Accessory		-	-	-	YES	
Solar Controller						
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)				
By Pass Function						
By Pass Transfer Time		<20m Sec				
DC/AC Transfer Threshold						
Inverter To AC Line		<11.2V ± 0.5V(12V)		<22.4V ± 1V(24V)		
AC Line To Inverter		>13.2V ± 0.5V(12V)		>26.4V ± 1V(24V)		



Solar Hybrid Inverter

LS-H Series



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



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

Model		LS-2000H		LS-2500H		LS-3000H		LS-4000H		LS-5000H	
System											
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	< 0.8A						< 0.9A			
	DC 24V	< 0.7A						< 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%									
Protection											
Input Type Auto-Detection		YES									
Input Polarity Reverse		Fuse									
Input Low Voltage		DC 12V: < 10.5V Pre-Alarm, < 9.5V Shutdown & Alarm DC 24V: < 21.5V Pre-Alarm, < 20V Shutdown & Alarm									
Short Circuit		YES									
Overheat		> 60°C Pre-Alarm, > 65°C Shutdown & Alarm									
Overload		> 100% Pre-Alarm, > 110% Shutdown & Alarm									
Cooling		Intelligent Fan									
Mechanical											
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									
Solar Controller											
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)									
By Pass Function											
By Pass Transfer Time		<20m Sec									
DC/AC Transfer Threshold											
Inverter To AC Line		<11.2V ± 0.5V(12V)			<22.4V ± 1V(24V)						
AC Line To Inverter		>13.2V ± 0.5V(12V)			>26.4V ± 1V(24V)						



■ Application

