



Versatile LS SPHI Hybrid Solar Inverters with Diesel Generator Compatibility

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: IEC/EN62109-1/-2 IEC/EN62477-1 South Africa NRS097-2-1:2017 IEC/EN 61000-6-1/IEC/EN 61000-6-3 UL1741SA, UL1699B, CSA 22.2 FCC Part 15 Class B
- Model Number: LS SPHI
- Minimum Order Quantity: 12 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Max. DC Input Power: 7.5 KW - 15 KW
- Rated Output Power (On-grid): 5 KVA - 10 KVA
- Max. Output Current (On-grid): 22.9 A - 45.8 A
- Nominal Battery Voltage: 48 V
- Max. Charging/Discharging Current: 120 A - 210 A
- Efficiency: MPPT Efficiency Up To 99.9%, Europe Efficiency Up To 96.5%
- Communication Interfaces: RS485, WLAN, 4G (optional)
- Operating Temperature Range: -25°C To +60°C
- Highlight: Hybrid Inverters, Hybrid Inverters, Hybrid Inverter

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Product Description

Versatile LS SPHI Hybrid Solar Inverters with Diesel Generator Compatibility

Key strengths

- Plug & Play.
- Capable of supporting 100% unbalanced loads.
- 3 phase 208Vac & paralel function available.
- 100A pass through.
- AC couple to retrofit existing solar system(on-grid & off-grid).
- Grid & diesel Generator separately connected, support storing energy from diesel generator.

Product Description

The LS SPHI series hybrid solar inverter is designed to support both on-grid and off-grid systems, offering a flexible solution for residential and small commercial applications. It is equipped with advanced features such as AC and DC coupling, ensuring compatibility with existing solar systems. The inverter's ability to support diesel generator integration and handle unbalanced loads makes it a versatile choice for users seeking reliable energy management. It also features a built-in MPPT controller for maximum solar energy utilization, along with intelligent EMS management for automatic grid switching during blackouts.

Type	LSRTH5K TLS-ML01	LSRTH6K TLS-ML01	LSRTH7K 6TLS- ML01	LSRTH8K TLS-ML01	LSRTH10 KTLS- ML01
PV input					
Max.DC input power (kW)	7.5	9	12	12	15
No.of MPPTtrackers			4		
MPPT vohage range (M)			120-500		
MAXDC input vohage(V)			500		
MAX.input current(A)			14		
MAX,short circuit current (A)			22		
Batteryinput					
Nomloal vottage (V)	48				
MAXcharging/discharging current (A)	120/120	135/135	190/190	190/190	190/210
Battery voltage range(V)	40-60				
Battery type	Lithium/Lead-acid				
Chargingstrategyfor LHon battery	Sel-adaption toBMS				
Type	LSRTH5K TLS-ML01	LSRTH6K TLS-ML01	LSRTH7K 6TLS- ML01	LSRTH8K TLS-ML01	LSRTH10 KTLS- ML01
AC output(on-grid)					
Nominal outputpower output togrid (kVA)	5	6	7.6	8	10
MAX.apparent power outputto grid (kVA)	5.5	6.6	8.4	8.8	11
Outputvoltage range (V)	(110-120/(220-240)split phase,240V single phase				
Output frequency (Hz)	60(55 to 65)				
Nominal AC curren output to grid (A)	20.8	25	31.7	333	41.7
Max,ACcurrentoutput to grid(A)	22.9	27.5	34.8	36.7	45.8
Max.gridpassthrough cument (A)	100				
Output THD	<3%				

AC output(back-up)					
Nominal.apparent power(kVA)	5	6	7.6	8	10
Max.apparent power (kVA)	5.5	6.6	8.4	8.8	11
Nominal output voltage L-N/L1-L2(V)	120/240				
Nominal output frequency (Hz)	60				
Automatic switchover time(ms)	<20				
Output powerfactor	0.8ending-0.8lagging				
Output THDu	<2%				
Protection					
Grounding detection	Yes				
Arc fault protecton	Yes				
Island protection	Yes				
Battery reverse polarty	Yes				
nsulationresistor detection	Yes				
Residual current monitoringunit	Yes				
Output over currentprotection	Yes				
Back-up output short protection	Yes				
Output over voltage protection	Yes				
Output under voltage protection	Yes				
General data					
Mppt efficiency	99.9%				
Europe efficiency (PV)	96.5%				
PV to gridefficiency (PV)	97.2%				
Battery to load efficiency	95.2%				
PVto battery charing efficiency	96.1%				
Grid to battery charing efficiency	95.0%				
Output conduit(mm)	25.4				
PV inout conduit(mm)	25.4				
BAT input conduit (mm)	35.4				
Operating temperature range(C)	-25~+60				
Relative humidty	0-95%				
Operating altitude	0~4,000m(Derating above 2,000m altitude)				
Ingross protectoo	IP65/NEMA.38				
Buil-in breaker	Optiona				
Weight (kg)	48kg(50kg withbreaker)				
Dimensions W*H*D (mm)	450x820x240				
Cooling	FAN cooling				
Noisoemission (dB)	38				
Display	LCD,Touch panel(optinal)				
Communicationwith BMS/Meter/EMS	RS485,CAN				
Supported communication intertace	RS485,WLAN,4G(optional				
Selfoonsumption	<25W				
Satety	UL1741SA all options,UL1699B,CSA 22.2				
EMO	FQC part 15 class				
Support dieselgenerator	YES				
Other data					
Pek power (off grid)	105%,60s/110%,30s/120%,10s/150%,20ms				

Application

This hybrid solar inverter is ideal for residential homes, small commercial spaces, and areas with intermittent grid supply or those relying on diesel generators. It provides a seamless energy solution, ensuring uninterrupted power supply and the optimal use of renewable energy.

Shipping Methods:

Supports global air and sea shipping.



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