

# Three-Phase Energy Storage Inverter

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## Three-Phase Energy Storage Inverter

This product is a high-quality inverter capable of converting solar energy into alternating current and storing it in batteries. The device can be used to optimize self-consumption, store electricity in batteries for later use, or feed it into the public grid.

Model: LFSI-5/6/8/10/12-TH

Brand: sanhe

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### Product Description



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### Product Introduction:

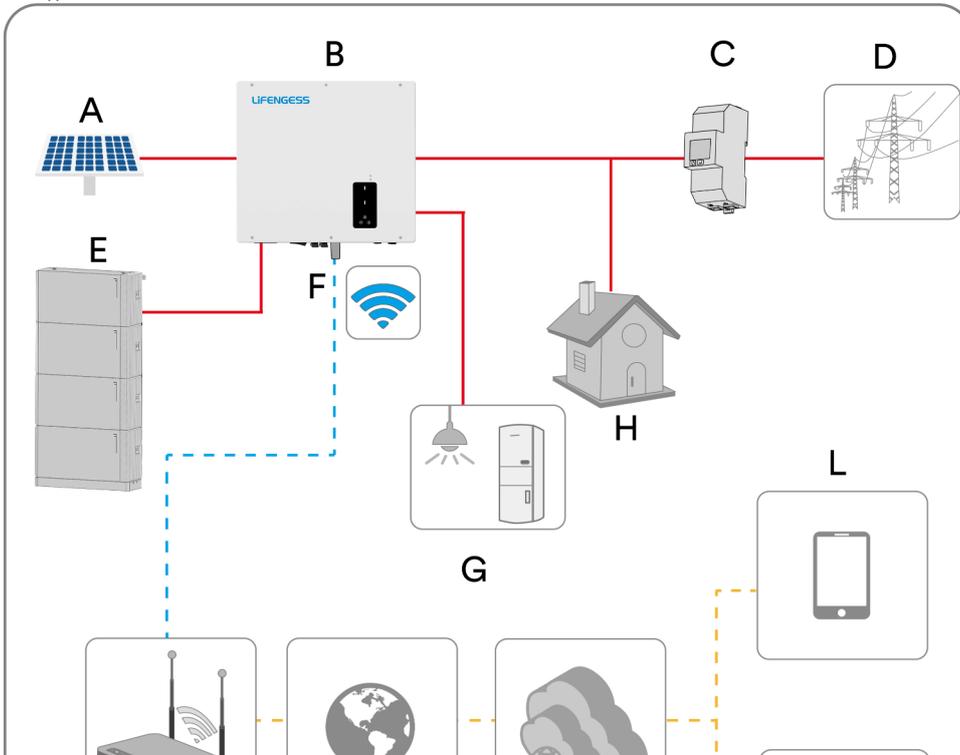
The residential energy storage system adopts a DC coupling mode, seamlessly integrating photovoltaic power generation with energy storage. It effectively stores surplus electricity generated by the photovoltaic system, significantly increasing the self-consumption rate of electricity and markedly reducing reliance on the grid.

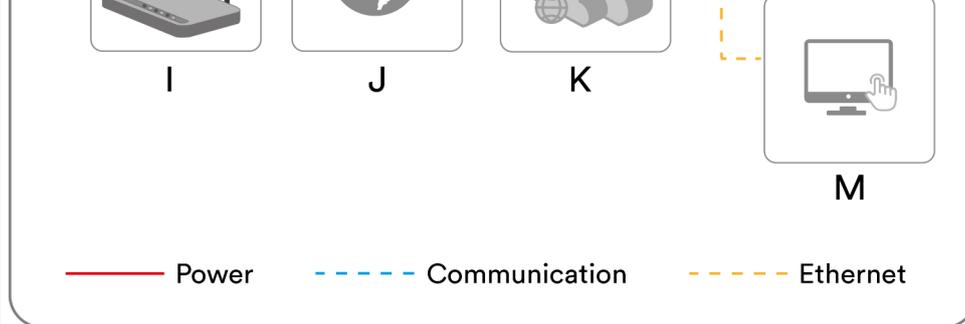
The solar storage system leverages peak and off-peak electricity price differentials for arbitrage operations, selling electricity during peak price periods and storing it during off-peak periods to maximize economic benefits. Moreover, users can utilize this system to help alleviate grid load while enjoying policy subsidies related to grid-support activities, achieving substantial economic returns and striking an optimal balance between energy conservation, emission reduction, and financial gains.

### Product Advantages:

- Plug-and-play installation, quick and convenient;
- High protection rating for the entire unit, resilient in harsh environments;
- AC/DC two-stage lightning protection design, preventing losses from lightning strikes;
- Maximum efficiency of 98.4%;
- Ultra-low startup voltage, ultra-wide voltage range;
- Multi-channel MPPT design, compatible with high-power mainstream components;
- Supports wireless communication and flexible monitoring methods;

### Basic Applications:





**Specifications:**

	LFSI-5-TH	LFSI-6-TH	LFSI-8-TH	LFSI-10-TH
PV Input				
Max. DC Input Voltage(V)	1100	1100	1100	1100
Rated DC Input Voltage(V)	630	630	630	630
MPPT Voltage Range(V)	150~950	150~950	200~950	200~950
No. of MPP Trackers	2	2	2	2
Max. Input Current(A)	20/20	20/20	20/20	20/20
Max. Short-circuit Current(A)	30/30	30/30	30/30	30/30
Battery				
Battery communication mode	CAN	CAN	CAN	CAN
Battery voltage range(V)	120-600	120-600	120-600	120-600
Maximum charge/discharge current(A)	30	30	30	30
Output(Grid)				
Rated Output Power(kW)	5	6	8	10
Rated Output Voltage(V)	3/N/PE,220/380V,230/400V,240/415V	3/N/PE,220/380V,230/400V,240/415V	3/N/PE,220/380V,230/400V,240/415V	3/N/PE,220/380V,230/400V,240/415V
Rated AC Frequency(Hz)	50/60	50/60	50/60	50/60
AC output rated current(A)	7.3	9	12	15
Power Factor	0.8 leading ...0.8lagging	0.8 leading ...0.8lagging	0.8 leading...0.8lagging	0.8 leading...0.8lagging
Max. total harmonic distortion	<3% @Rated Output Power			
Efficiency				
Max. Efficiency	98.4%	1	1	1
European Efficiency	97.9%	1	1	1
General Data				
Protection Degree	IP66	IP66	IP66	IP66
Operating Temperature Range(°C)	-25~60	-25~60	-25~60	-25~60
Relative Humidity(%)	0~100	0~100	0~100	0~100
Operating Altitude(m)	3000	3000	3000	3000
Cooling	Natural air cooling	Natural air cooling	Natural air cooling	Natural air cooling

Next: Single-Phase Energy Storage Inverter