

# Residential 10KW 3-phase Hybrid Inverter

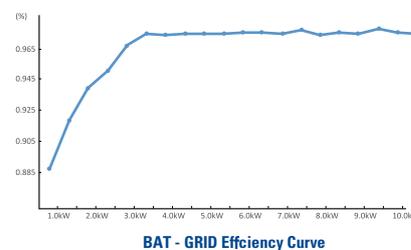
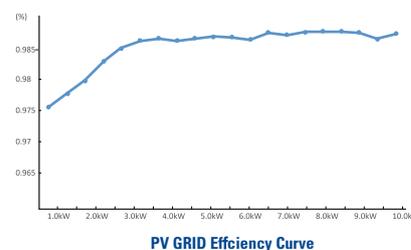
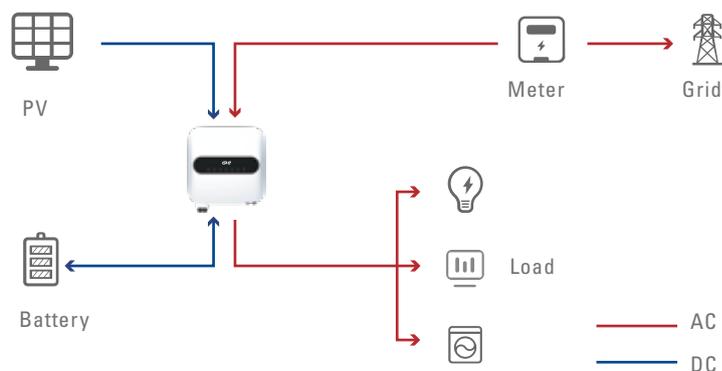
## LSHE-10K-TL-TH

The LSHE 10kW three-phase hybrid inverter, is specially designed for households and small C&I projects to increase energy independence. With various protection functions, it is reliable, safe, intelligent, and stable. The protection level is upgraded to IP65, realizing higher environmental adaptability.



- Switching time less than 10ms, supporting uninterrupted intelligent switching between on-grid and off-grid modes
- Support PV, battery, diesel generator, load at the same time access, also has strong adaptability
- Can be as a EPS for the important loads when power off
- Touch-free operation via APP/WIFI
- Integral molding design, ultra-light weight
- Suitable for harsh conditions such as high altitude and extreme temperature, ensuring reliable operation

### System Layout



## Specifications

Product Model	LSHE-10K-TL-TH
<b>PV Input (DC)</b>	
Max. PV power (W)	13000
Max. PV voltage (V)	1000
Rated PV voltage (V)	720
Max. PV input current (A)	13/13
MPPT voltage range (V)	200-800
MPPT number	2
<b>Battery Side Data</b>	
Battery voltage range (V)	200-800
Rated battery voltage (V)	500
Max. charge / discharge current (A)	25/25
Max. charge / discharge power (W)	10000
<b>Grid AC Data</b>	
Rated AC power (W)	10000
Rated grid voltage (V)	400/230; 380/220
Rated grid frequency (Hz)	50/60
Rated AC current (A)	14.5
Max. AC current (A)	16.7
Power factor	0.8cap...0.8ind
THD (%)	<3
<b>Load Output (With Battery)</b>	
Rated power (W)	10000
Rated AC voltage (V)	400/380
Rated frequency (Hz)	50/60
Rated current (A)	14.5
Max. AC current (A)	16.7
On/Off Grid Switching Time (ms)	<20
THD(%)	<3
<b>Efficiency</b>	
MPPT efficiency (%)	99.9
European efficiency (%)	97
Max. efficiency (%)	97.8
Charge/Discharge efficiency (%)	97.6/96
<b>Protective Function</b>	
Battery reverse-polarity protection	Yes
Anti-islanding	Yes
Residual Current Protection	Yes
AC Short-circuit Protection	Yes
AC Over Current/Voltage Protection	Yes
Insulation Monitoring	Yes
<b>General Data</b>	
Size (W*H*D) (mm)	548*550*188
Weight(kg)	<35
Standby consumption (W)	<25
IP Grade	IP 65
Working temperature (C)	-25...+60
Altitude(M)	<2000
Noise emission (dB)	<30
Cooling	Natural-cooling
Communication interface	WiFiGPRS(optionalRS485)
Display	LED
Certificate	EN 62109, IEC 62109, EN 61000, EN50549, VDE 4105, CEI-021, NRS097