

Residential 10KW 3-phase Hybrid Inverter

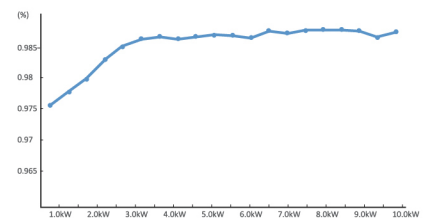
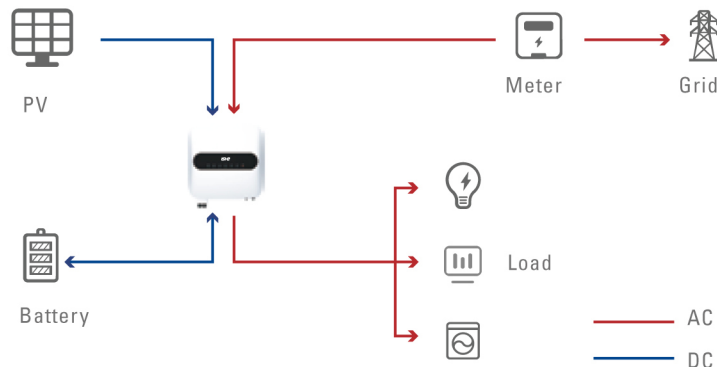
LSHE-10K-TL-TH

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.

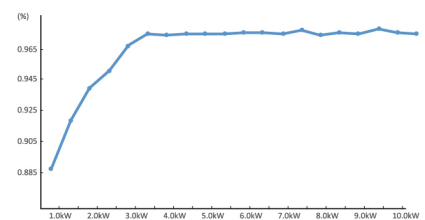


- Switching time less than 10ms, supporting uninterrupted intelligent switching between on-grid and off-grid modes
- Support PV, battery, diesel generator, load at the same time access, also has strong adaptability
- Can be as a EPS for the important loads when power off
- Touch-free operation via APP/WIFI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

System Layout



PV GRID Efficiency Curve



BAT - GRID Efficiency Curve

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------|
| Product Model | LSHE-10K-TL-TH |
| PV Input (DC) | |
| 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 |
| Battery Side Data | |
| Battery voltage range (V) | 200-800 |
| Rated battery voltage (V) | 500 |
| Max. charge / discharge current (A) | 25/25 |
| Max. charge / discharge power (W) | 10000 |
| Grid AC Data | |
| 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 |
| Load Output (With Battery) | |
| 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 |
| Efficiency | |
| MPPT efficiency (%) | 99.9 |
| European efficiency (%) | 97 |
| Max. efficiency (%) | 97.8 |
| Charge/Discharge efficiency (%) | 97.6/96 |
| Protective Function | |
| 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 |
| General Data | |
| 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 | WIFI/PRS(optional)RS485 |
| Display | LED |
| Certificate | EN 62109, IEC 62109, EN 61000, EN50549, VDE 4105, CEI-021, NRS097 |