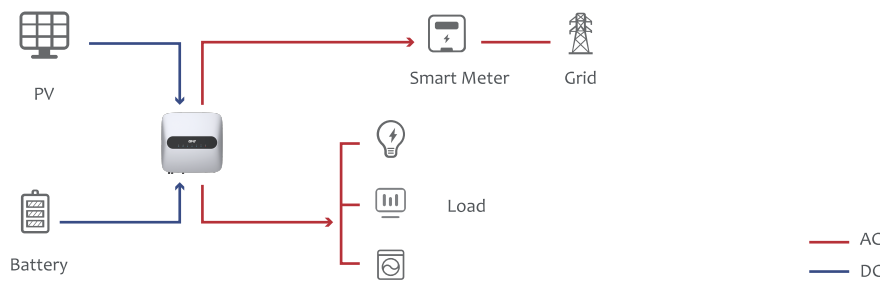


# LSHE-10K-TL-TH Residential Energy Storage System



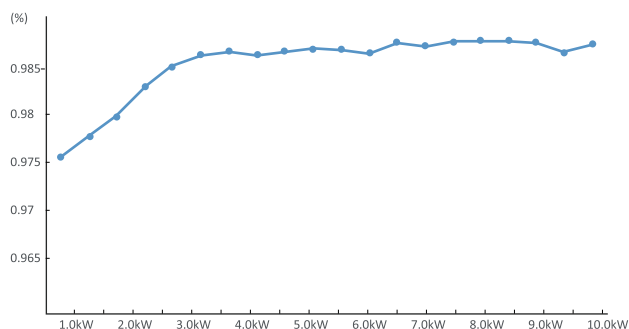
Support solar panel, battery, grid and load four-port interface  
 Can be integrated with on-grid and off-grid switching function  
 Easy capacity expansion and installation  
 Full power output in the off-grid state  
 Strong output capability and good load adaptability

## Residential Energy Storage system

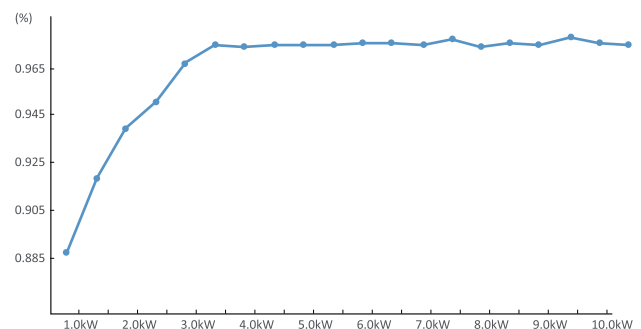


## Features

- High efficiency (up to 97.6%)
- Wide PV voltage range, high PV generation energy
- Large PV voltage up limit, suitable for latest type module (bi-facial/half-cell)
- Large charge-discharge current, fast charging and discharging speed
- Fully integrated high strength aluminum alloy mould and strong impact resistance
- Accurate heat control, guarantee the longer lifespan of inner components
- Comprehensive hardware and software protective functions
- IP65, suitable for both indoor and outdoor application
- Multiple working modes settable and customizable (zero export include)
- Free remote monitoring and configuration, build-in WiFi, optional GPRS
- Seamless switching UPS function, larger off-grid output power
- Large MPPT power range, support full unbalance between dual MPPT
- Without LCD design lower the failure rate
- Touch-free operation via APP
- Compact size and lightweight
- Quick and easy remote upgrading and configuration



PV - GRID Efficiency Curve



BAT - GRID Efficiency Curve



Product Model	LSHE-10K-TL-TH
<b>PV Input (DC)</b> Max. PV power (W) Max. PV voltage(V) Rated PV voltage(V) Max. PV input current(A) MPPT voltage range(V) MPPT number	13000 1000 720 13 / 13 200-800 2
<b>Battery Side Data</b> Battery voltage range(V) Rated battery voltage(V) Max. charge / discharge current(A) Max. charge / discharge power(W)	200-800 500 25 / 25 10000
<b>Grid AC Data</b> Rated AC power(W) Rated grid voltage(V) Rated grid frequency(Hz) Rated AC current(A) Max. AC current(A) Power factor THD(%)	10000 400 / 230; 380 / 220 50 / 60 14.5 16.7 0.8cap...0.8ind <3
<b>Load Output (With Battery)</b> Rated power(W) Rated AC voltage(V) Rated frequency(Hz) Rated current(A) Max. AC current(A) On/Off Grid Switching Time(ms) THD(%)	10000 400 / 380 50 / 60 14.5 16.7 < 20 <3
<b>Efficiency</b> MPPT efficiency(%) European efficiency(%) Max. efficiency(%) Charge/Discharge efficiency(%)	99.9 97 97.8 97.6 / 96
<b>Protective Function</b> Battery reverse-polarity protection Anti-islanding Residual Current Protection AC Short-circuit Protection AC Over Current/Voltage Protection Insulation Monitoring	Yes Yes Yes Yes Yes Yes
<b>General Data</b> Size (W*H*D) (mm) Weight(kg) Standby consumption(W) IP Grade Working temperature(℃) Altitude(M) Noise emission(dB) Cooling Communication interface Display	548*550*188 < 35 <25 IP 65 -25...+60 <2000 < 30 Natural-cooling WIFI, GPRS(optional), RS485 LED

