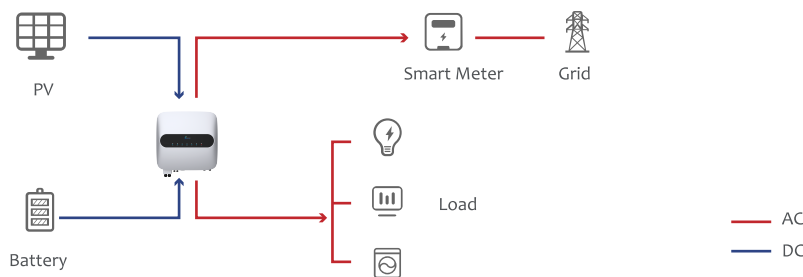




# SMT-5K-TL-LV

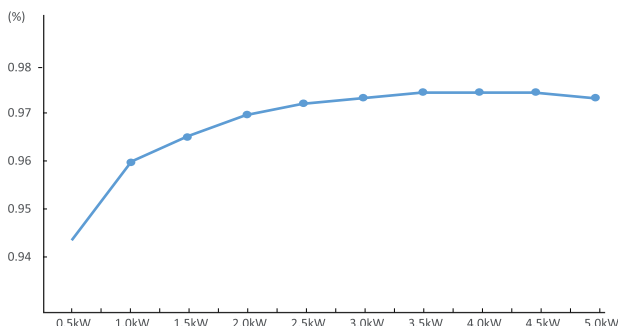
Support solar panel, battery, grid and load four-port interface  
 Can be integrated with on-grid and off-grid switching function  
 Easy capacity expansion and installation  
 Full power output in the off-grid state  
 Strong output capability and good load adaptability

## Residential Energy Storage system

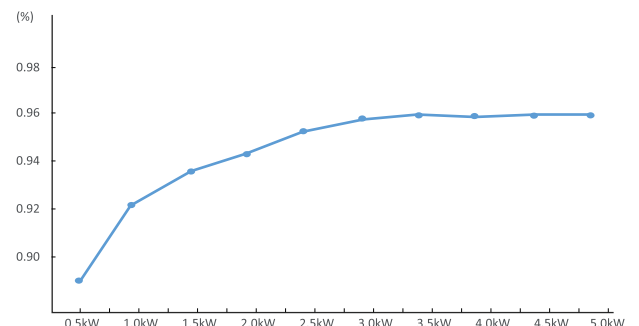


## Features

- 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
- 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
- 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
- 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	SMT-5K-TL-LV
<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	6000 580 360 13 / 13 125-550 2
<b>Battery Side Data</b> Battery voltage range (V) Rated battery voltage (V) Max. charge / discharge current(A) Max. charge / discharge power(W)	40-58 48 70 / 100 4200/ 5000
<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 (%)	5000 220 / 230 50 / 60 21.7 22.8 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 (Linear load) (%)	4600 220 / 230 50 / 60 20 20.9 <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> PV 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	516*525.6*151.7 <28 <25 IP 65 -25...+60 <2000 <30 Natural-cooling WIFI, GPRS(optional), RS485 LED