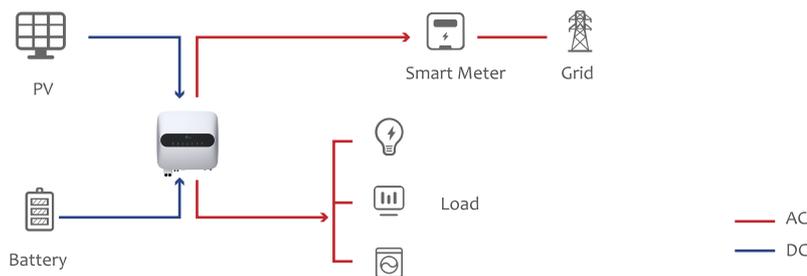




SMT-5K-TL-LV

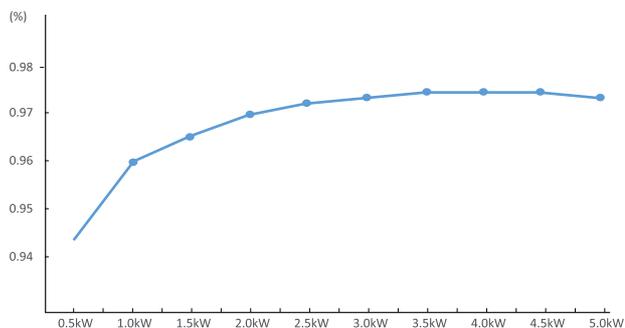
Support solar panel, battery, grid and load four-port interface
 Can be integrated with on-grid and off-grid switching function
 Easy capacity expansion and installation
 Full power output in the off-grid state
 Strong output capability and good load adaptability

Residential Energy Storage system

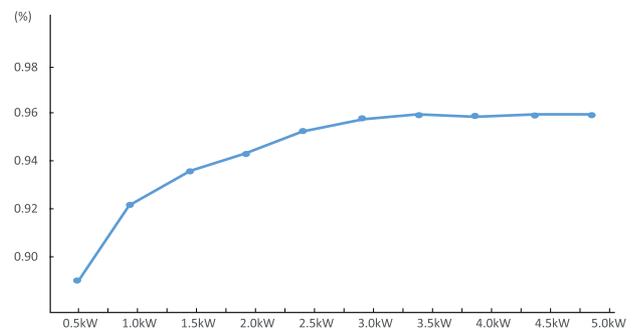


Features

- 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
- 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
- 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



PV - GRID Efficiency Curve



BAT - GRID Efficiency Curve

Product Model	SMT-5K-TL-LV
PV Input (DC)	
Max. PV power (W)	6000
Max. PV voltage (V)	580
Rated PV voltage (V)	360
Max. PV input current (A)	13 / 13
MPPT voltage range (V)	125-550
MPPT number	2
Battery Side Data	
Battery voltage range (V)	40-58
Rated battery voltage (V)	48
Max. charge / discharge current(A)	70 / 100
Max. charge / discharge power(W)	4200/ 5000
Grid AC Data	
Rated AC power (W)	5000
Rated grid voltage (V)	220 / 230
Rated grid frequency (Hz)	50 / 60
Rated AC current (A)	21.7
Max. AC current (A)	22.8
Power factor	0.8cap...0.8ind
THD (%)	<3
Load Output (With Battery)	
Rated power (W)	4600
Rated AC voltage (V)	220 / 230
Rated frequency (Hz)	50 / 60
Rated current (A)	21.7
Max. AC current (A)	22.8
On/Off Grid Switching Time (ms)	<20
THD (Linear load) (%)	<3
Efficiency	
MPPT efficiency (%)	99.9
European efficiency (%)	97
Max. efficiency (%)	97.8
Charge/Discharge efficiency (%)	97.6 / 96
Protective Function	
PV 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)	516*525.6*151.7
Weight (kg)	<28
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, GPRS(optional), RS485
Display	LED