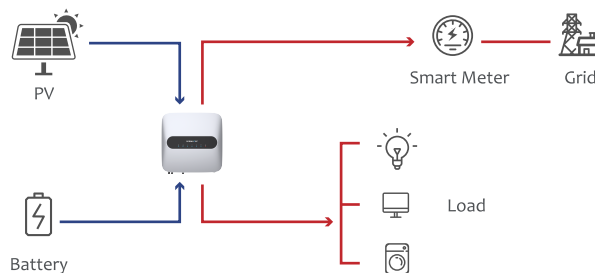




SMT-10K-TL-TH

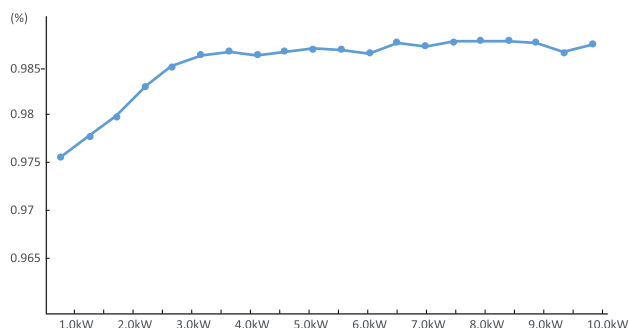
Support solar panel, battery, grid and load four-port interface
Can be integrated with on-grid and off-grid switching function
Easy capacity expansion and installation
Full power output in the off-grid state
Strong output capability and good load adaptability

Residential Energy Storage system

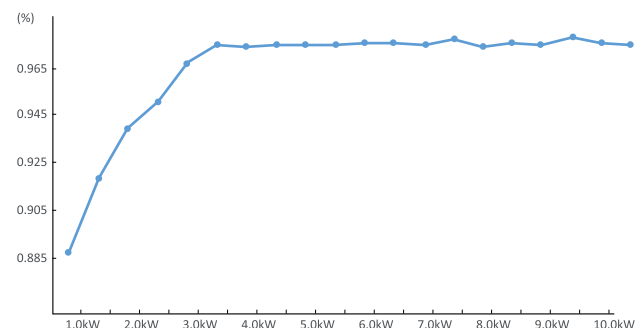


Features

- 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)
- Without LCD design lower the failure rate
- Free remote monitoring and configuration, build-in WiFi, optional GPRS
- Touch-free operation via APP
- Seamless switching UPS function, larger off-grid output power
- Compact size and lightweight
- Large MPPT power range, support full unbalance between dual MPPT
- Quick and easy remote upgrading and configuration



PV - GRID Efficiency Curve



BAT - GRID Efficiency Curve



Technical Data

Input Data	
Max. PV power (W)	14000
Max. PV voltage(V)	1000
Rated PV voltage(V)	720
Max. PV input current(A)	12.5
MPPT voltage range(V)	200-880
MPPT number	2
Battery Side Data	
Battery voltage range(V)	180-800
Rated battery voltage(V)	400
Max. charge / discharge current(A)	25 / 25
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 AC Data (EPS/UPS/Off-grid)	
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
Switching Time(ms)	<20
Peak Power @25 ℃	11kW*30min;13kW*5min;15kW*5s
THD(%)	<3
Efficiency	
MPPT efficiency(%)	99.9
European efficiency(%)	97
Max. efficiency(%)	97.8
Charge/Discharge efficiency(%)	97.6 / 96
Protective Function	
DC reverse-polarity protection	Yes
Anti-islanding	Yes
Residual Current Protection	Yes
AC Short-circuit Protection	Yes
AC Over Current/Voltage Protection	Yes
Integrated DC Switch	Yes
Insulation Monitoring	Yes
General Data	
Size (W*H*D) (mm)	548*550*188
Weight(kg)	<35
Standby consumption(W)	<20
IP Grade	IP 65
Working temperature(℃)	-25...+60
Altitude(M)	<2000
Noise emission(dB)	<30
Cooling	Natural cooling
Communication interface	WIFI、GPRS (optional) 、RS485
Display	LED