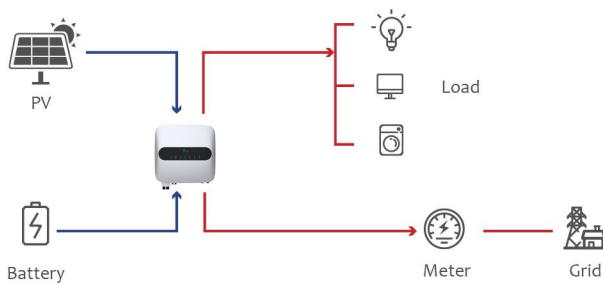




The SMT-10K-TL-TH, products, support photovoltaic, battery, grid-connected, and load four-way interface, integrated on-grid and off-grid switching function. Support multi-machine parallel connection in off-grid state. Expansion is simple and convenient. Full power output in off-grid state, support 100% unbalanced load access, strong output capability and good load adaptability.



Residential Energy Storage system



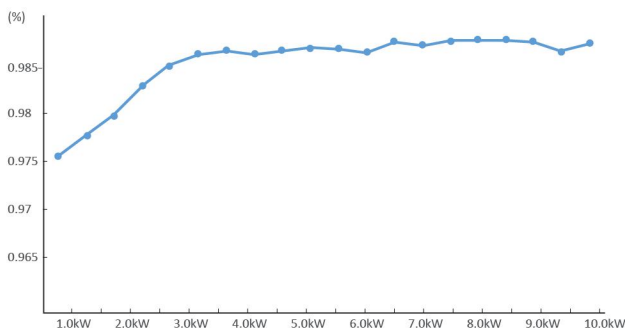
Features

- High efficiency (up to 97.8%)
- Wide PV voltage range, longer uptime, higher PV generation energy
- Larger PV voltage up limit, suitable for latest type module (bi-facial/half-cell)
- Higher DC voltage range, better battery efficiency

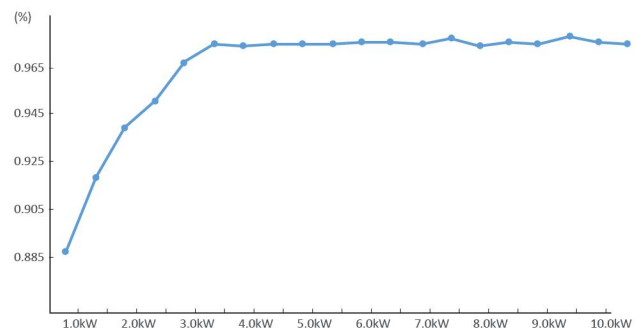
- Multiple working mode settable and customizable (zero export include)
- Free remote monitoring and configuration, build-in WiFi, optional GPRS
- Seamless switching UPS function, larger off-grid output power
- 100% three phase unbalance available

- Full integrated high strength aluminum alloy mod, stronger impact resistance
- Most balanced heat control, guarantee the longer lifespan of inner components
- Comprehensive hardware and software protection functions
- IP65, suitable for both indoor and outdoor application

- Less moving parts due to integrated concept, easy for usage
- Touch free operation via APPs
- Compact size and light weight
- Quick and easy remote upgrading and configuration function



PV - GRID Efficiency Curve



BAT - GRID Efficiency Curve

Product Model	SMT-10K-TL-TH
PV Input (DC)	
Max. PV power	14000W
Max. PV voltage	1000Vdc
Rated PV voltage	720Vdc
Max. PV input current	12.5A / 12.5A
MPPT voltage range	200-880Vdc
MPPT number	2
Battery Side Data	
Battery voltage range	180-800Vdc
Rated battery voltage	400Vdc
Max. charge / discharge current	25A / 25A
Grid AC Data	
Rated AC power	10000W
Rated grid voltage	230Vac / 400Vac; 220Vac / 380Vac; 3/N/PE
Rated grid frequency	50Hz / 60Hz
Rated AC current	14.5A
Max. AC current	16.7A
Power factor	0.8cap...0.8ind
THD	<3%
Load AC Data (EPS/UPS/Off-grid)	
Rated power	10000W
Rated AC voltage	400Vdc; 380Vdc; 3/N/PE
Rated frequency	50HZ / 60HZ
Rated current	14.5A
Maxi. AC current	16.7A
Switching Time	10ms
Peak Power @25 °C	11kW*30min; 13kW*5min; 15kW*5s
THD (Linear load)	<3%
Efficiency	
MPPT efficiency	99.9%
European efficiency	97%
Max. efficiency	97.6%
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 (width X high X depth)	548*550*188mm
Weight	< 40kg
Standby consumption	< 20W
IP Grade	IP 65
Working temperature	-25°C ... +60°C
Altitude	< 2000M
Noise emission	< 30dB
Cooling	Natural cooling
Communication interface	WIFI、GPRS (optical) 、RS485
Display	LED