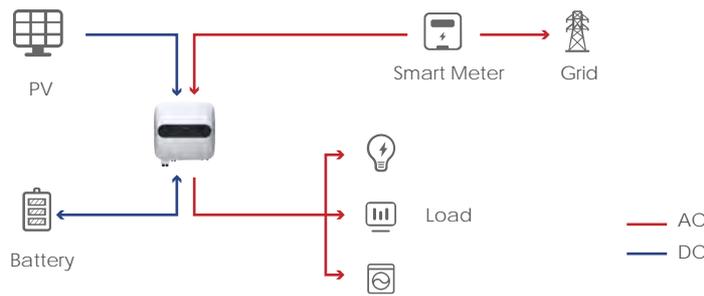




## SMT-5K-TL-LV

- 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

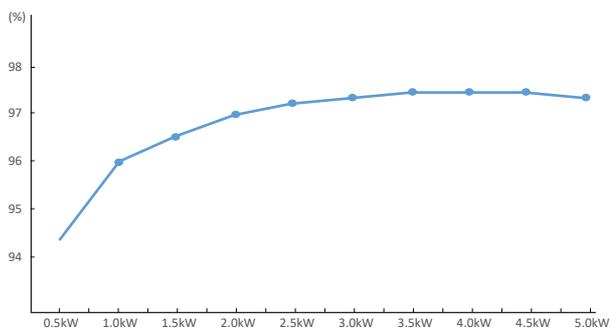
### ► Residential Energy Storage system



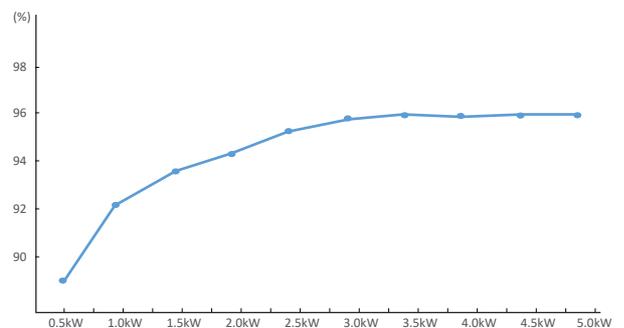
### ► Features

- High efficiency (up to 97.8%)
- Wide PV voltage range, high PV generation energy
- 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

- 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

Model Type	SMT-5K-TL-LV
<b>PV Input (DC)</b>	
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
<b>Battery Side Data</b>	
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
<b>Grid AC Data</b>	
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
<b>Load Output (With Battery)</b>	
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(%)	< 3
<b>Efficiency</b>	
MPPT efficiency (%)	99.9
European efficiency (%)	97
Max. efficiency (%)	97.8
Charge/Discharge efficiency (%)	97.6 / 96
<b>Protective Function</b>	
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
<b>General Data</b>	
Size(W*H*D)(mm)	516*525.6*151.7
Weight (kg)	< 28
Standby consumption (W)	< 25
IP Grade	IP65
Working temperature (C)	-25~60
Altitude(m)	< 2000
Noise emission (dB)	< 30
Cooling	Natural-cooling
Communication interface	WIFI, GPRS(optional), RS485
Display	LED

\*All illustrations and data may differ from standard product. Subject to change without notice.

