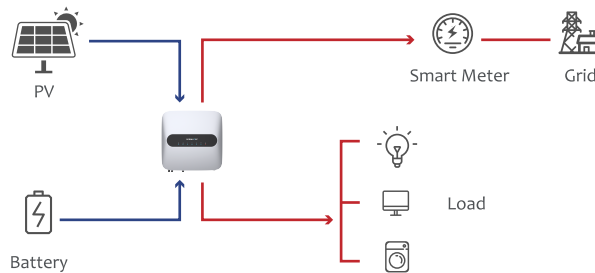




# SMT-10K-TL-TH

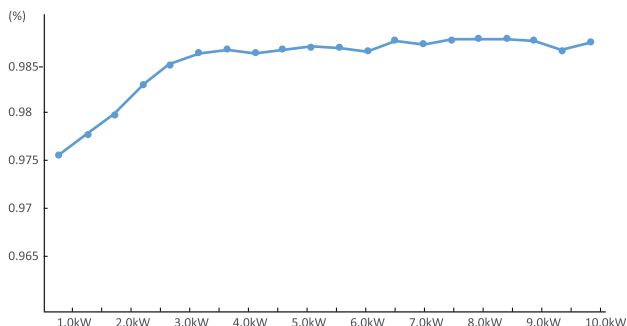
Support solar panel,battery,grid and load four-port interface  
Can be integrated with on-grid and off-grid switching function  
Easy capacity expansion and installation  
Full power output in the off-grid state  
Strong output capability and good load adaptability

## Residential Energy Storage system

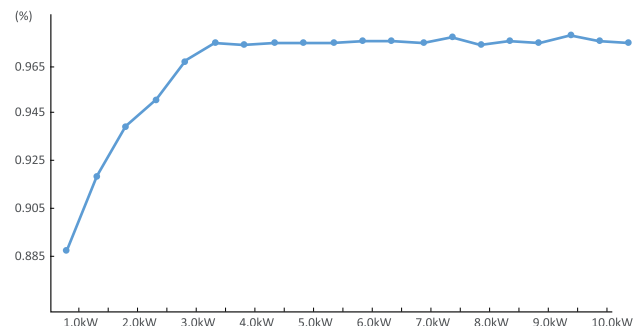


## Features

- 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**

| Product Model                                                                                                                                                                                                                       | SMT-10K-TL-TH                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>PV Input (DC)</b><br>Max. PV power (W)<br>Max. PV voltage(V)<br>Rated PV voltage(V)<br>Max. PV input current(A)<br>MPPT voltage range(V)<br>MPPT number                                                                          | 14000<br>1000<br>720<br>12.5<br>200-880<br>2                                                                             |
| <b>Battery Side Data</b><br>Battery voltage range(V)<br>Rated battery voltage(V)<br>Max. charge / discharge current(A)                                                                                                              | 180-800<br>400<br>25 / 25                                                                                                |
| <b>Grid AC Data</b><br>Rated AC power(W)<br>Rated grid voltage(V)<br>Rated grid frequency(Hz)<br>Rated AC current(A)<br>Max. AC current(A)<br>Power factor<br>THD(%)                                                                | 10000<br>400/230;380/220<br>50 / 60<br>14.5<br>16.7<br>0.8cap...0.8ind<br><3                                             |
| <b>Load AC Data (EPS/UPS/Off-grid)</b><br>Rated power(W)<br>Rated AC voltage(V)<br>Rated frequency(Hz)<br>Rated current(A)<br>Max. AC current(A)<br>Switching Time(ms)<br>Peak Power @25 ℃<br>THD(%)                                | 10000<br>400/380<br>50 / 60<br>14.5<br>16.7<br><20<br>11kW*30min;13kW*5min;15kW*5s<br><3                                 |
| <b>Efficiency</b><br>MPPT efficiency(%)<br>European efficiency(%)<br>Max. efficiency(%)<br>Charge/Discharge efficiency(%)                                                                                                           | 99.9<br>97<br>97.8<br>97.6 / 96                                                                                          |
| <b>Protective Function</b><br>DC reverse-polarity protection<br>Anti-islanding<br>Residual Current Protection<br>AC Short-circuit Protection<br>AC Over Current/Voltage Protection<br>Integrated DC Switch<br>Insulation Monitoring | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                                            |
| <b>General Data</b><br>Size (W*H*D) (mm)<br>Weight(kg)<br>Standby consumption(W)<br>IP Grade<br>Working temperature(℃)<br>Altitude(M)<br>Noise emission(dB)<br>Cooling<br>Communication interface<br>Display                        | 548*550*188<br><35<br><20<br>IP 65<br>-25...+60<br><2000<br><30<br>Natural cooling<br>WIFI、GPRS (optional) 、RS485<br>LED |