

5KW hybrid single phase inverter

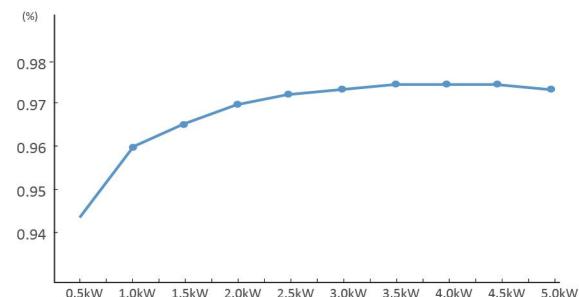


Characteristics:

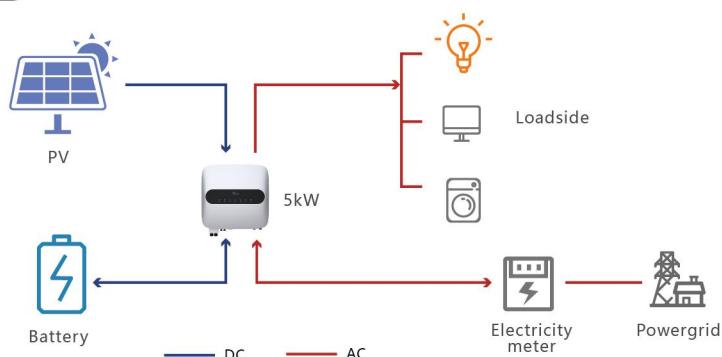
- On/off grid switch time < 10ms ; Inductive load ≤ 1.2kw ; Extra light weight < 25kg for simplify installation ;
- IP65 protection level, suitable for harsh environments such as high altitude, high temperature, high cold, and long-term continuous and reliable operation. The designed life is up to 25 years.
- Support grid-connected and off-grid unstoppable switching; With the function of energy management, support unmanned autonomous operation without EMS.
- With flexible configuration, it can select photovoltaic-/mains charging modes and the buried Lithium battery, support Wi-Fi and GPRS wireless monitoring mode, and support multiple-unit parallel operation, convenient for expansion.

Efficiency curve ▶

PV - GRID Efficiency Curve



Topological graph ▶



| Model | SMT-5K-TL-LV | SMT-5K-TL-HV |
|-----------------------------------------|----------------------------------|-----------------|
| PV parameters | | |
| Maximum output power | 6000W | 6000W |
| Maximum DC voltage | 580V | 580V |
| Maximum input current | 11A/11A | 11/11A |
| DC overcurrent protection | 14A | 14A |
| MPPT voltage range | 125V~550V | 125~550V |
| MPPT input circuit number | 2 | 2 |
| Battery parameters | | |
| Battery type | Lithium battery | Lithium battery |
| Battery voltage range | 40V~58V | 80V~400V |
| Rated battery voltage | 48V | 300V |
| Maximum charge and discharge efficiency | 95%/94% | 95%/94% |
| Maximum charge and discharge current | 70A/100A | 70A/100A |
| AC side parameters | | |
| Rated power grid power | 5000W | 5000W |
| Power grid voltage range | 170V~280V | 170V~280V |
| Rated power grid frequency | 50/60Hz | 50/60Hz |
| Maximum AC input/output current | 22.8A/22.8A | 22.8A/22.8A |
| Power factor | -0.8overexcited, 0.8underexcited | |
| THDi | <3% | <3% |
| Load side parameter | | |
| Rated power | 5000W | 5000W |
| Maximum output current | 22.8A | 22.8A |
| Overcurrent protection rated | 21.7A | 21.7A |
| Power factor | -0.8overexcited, 0.8underexcited | |
| THDi | <3% | <3% |
| Efficiency | | |
| MPPT power | 99.9% | 99.9% |
| European efficiency | 97% | 97% |
| Max. efficiency | 97.6% | 97.6% |
| Conventional parameters | | |
| Size (width / height / thickness) | 495*516*152mm | 495*516*152mm |
| Weight | <25kg | <25kg |
| Operating temperature | -25°C~60°C | -25°C~60°C |
| Noise index | 25dB | <30dB |
| Relative humidity | 0~95% | 0~95% |
| Operating altitude | <2000 | <2000 |
| Cooling mode | Natural cooling | Natural cooling |
| Protection level | IP65 | IP65 |
| Protective function | | |
| Anti-islanding protection | Yes | Yes |
| DC switch (PV) | Yes | Yes |
| Output overcurrent protection | Yes | Yes |
| Output overvoltage protection | Yes | Yes |
| Output short circuit protection | Yes | Yes |
| Characteristics | | |
| Display | LED | LED |
| Communication interface | WIFI、RS485、GPRS | WIFI、RS485、GPRS |
| Quality guarantee | 5 | 5 |