

sunways

Sunways Three Phase with Four MPPT

STT-30K~60KTL

MAX 98.8% EFFICIENCY

IP66 PROTECTION



SAFE & RELIABLE

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy enclosure
- IP66, can be used in broader variety of harsh installation environments



HIGH YIELD

- High yield with Max. 98.8% efficiency
- European weighted efficiency 98.3%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- DC 2 in 1 connection enabled, compatible with high-power panels



EASY TO USE

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

| Model | STT-29.9KTL | STT-30KTL | STT-33KTL | STT-36KTL | STT-40KTL | STT-45KTL | STT-50KTL-M | STT-60KTL-M |
|------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Input | | | | | | | | |
| Max. Input Power (W) | 47,840 | 48,000 | 52,800 | 57,600 | 64,000 | 72,000 | 80,000 | 96,000 |
| Start-up Voltage (V) | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. DC Input Voltage (V) | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 |
| Rated DC Input Voltage (V) | 620 | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| MPPT Voltage Range (V) | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 |
| No. of MPP Trackers | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| No. of DC Inputs per MPPT | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Max. Input Current (A) | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 | 26/26/26/26 |
| Max. Short-circuit Current (A) | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 |
| Output | | | | | | | | |
| Rated Output Power (W) | 29,900 | 30,000 | 33,000 | 36,000 | 40,000 | 45,000 | 50,000 | 60,000 |
| Max. Output Power (W) | 29,900 | 33,000 | 36,300 | 39,600 | 44,000 | 49,500 | 55,000 | 66,000 |
| AC output rated apparent power(VA) | 29,900 | 30,000 | 33,000 | 36,000 | 40,000 | 45,000 | 50,000 | 60,000 |
| Max. Apparent Power (VA) | 29,900 | 33,000 | 36,300 | 39,600 | 44,000 | 49,500 | 55,000 | 66,000 |
| Rated Output Voltage (V) | 3 L/ N / PE, 380 / 400V | | | | | | | |
| Rated AC Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| AC output rated current (A) | 43.3 | 43.5 | 47.8 | 52.2 | 58.0 | 65.2 | 72.5 | 87.0 |
| Max. Output Current (A) | 43.3 | 47.8 | 52.6 | 57.4 | 63.8 | 71.7 | 79.7 | 95.7 |
| Power Factor | 0.8 leading ...0.8 lagging | | | | | | | |
| Max. total harmonic distortion | <3% @Rated Output Power | | | | | | | |
| DCI | <0.5%In | | | | | | | |
| Efficiency | | | | | | | | |
| Max. Efficiency | 98.8% | 98.8% | 98.8% | 98.8% | 98.8% | 98.8% | 98.8% | 98.8% |
| European Efficiency | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | | | | |
| DC Reverse Polarity Protection | Integrated | | | | | | | |
| Insulation Resistance Protection | Integrated | | | | | | | |
| DC Switch | Integrated | | | | | | | |
| Surge Protection | Integrated | | | | | | | |
| Over-temperature Protection | Integrated | | | | | | | |
| Residual Current Protection | Integrated | | | | | | | |
| Islanding protection | Frequency shift, Integrated | | | | | | | |
| AC Short-circuit Protection | Integrated | | | | | | | |
| AC Over-voltage Protection | Integrated | | | | | | | |
| General Data | | | | | | | | |
| Dimensions (mm) | 600W*400H*270D | | | | | | | |
| Weight (KG) | 42 | | | | | | | |
| Protection Degree | IP66 | | | | | | | |
| Self-consumption at Night (W) | <1 | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Operating Temperature Range (° C) | -30~60 | | | | | | | |
| Relative Humidity (%) | 0~100 | | | | | | | |
| Operating Altitude (m) | 4000 (derating@ > 3000) | | | | | | | |
| Cooling | Smart Fan Cooling | | | | | | | |
| Display | OLED & LED | | | | | | | |
| Communication | RS485/WiFi/ GPRS/LAN(Optional) | | | | | | | |
| Compliance | NB/T32004、IEC62109、IEC62116、VDE4105、VDE0126、UTE C15-712-1、AS4777、C10/11、CEI0-21、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000 | | | | | | | |