

Sunways

Sunways Three Phase with Dual MPPT
STT-4K/5K/6K/8K/10K/12K/15K/17K/20K/25KTL

MAX 98.6% EFFICIENCY

IP65 PROTECTION



Safe & Reliable

- High reliability due to good heat dissipation design
- IP65, wider working temperature and altitude, adapt to various installation environments
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology



High Revenue

- High yield with Max.98.6% efficiency
- European weighted efficiency 98.2%
- Longer working hours due to the lower start-up voltage and wider MPPT range
- Up to 10% continuous output overloading capacity
- Dual MPPT design with precise MPPT algorithm
- Standard 5 years warranty, extendable to 10 or 15 years



Easy to use

- Compact elegant design, less than 25kg, easy for installation
- Support wireless and wired internet connection (RS485, Wi-Fi/GPRS/LAN optional)
- Remote upgrading available
- Intelligent positioning abnormal string with integrated I/V scan function

TECHNICAL PARAMETERS

THREE PHASE:STT-4K/5K/6K/8K/10K/12K/15K/17K/20K/25KTL

| Model | STT-4KTL | STT-5KTL | STT-6KTL | STT-8KTL | STT-10KTL | STT-12KTL | STT-15KTL | STT-17KTL | STT-20KTL | STT-25KTL | |
|-----------------------------------|--|----------|----------|----------|-----------|-----------|-----------|-------------------|-----------|-----------|--|
| Input | | | | | | | | | | | |
| Max. Input Power (W) | 5,200 | 6,500 | 7,800 | 10,400 | 13,000 | 15,600 | 19,500 | 22,100 | 26,000 | 32,500 | |
| Start-up Voltage (V) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | |
| Min. DC Voltage (V) | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | |
| Max. DC Input Voltage (V) | 1,100 | 1,100 | 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 | 620 | 620 | |
| MPPT Voltage Range (V) | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | 200-950 | |
| No. of MPP Trackers | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| No. of DC Inputs per MPPT | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/2 | 2/2 | 2/2 | 2/2 | |
| Max. Input Current (A) | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 | 11/22 | 22/22 | 22/22 | 22/22 | |
| Max. Short-circuit Current (A) | 15/15 | 15/15 | 15/15 | 15/15 | 15/15 | 15/15 | 15/30 | 30/30 | 30/30 | 30/30 | |
| Output | | | | | | | | | | | |
| Rated Output Power (kW) | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 17 | 20 | 25 | |
| Max. Output Power (kW) | 4.4 | 5.5 | 6.6 | 8.8 | 11 | 13.2 | 16.5 | 18.7 | 22 | 25 | |
| Max. Apparent Power (kVA) | 4.4 | 5.5 | 6.6 | 8.8 | 11 | 13.2 | 16.5 | 18.7 | 22 | 25 | |
| Rated Output Voltage (V) | 3L/N/PE, 230/400V | | | | | | | | | | |
| Rated AC Frequency (Hz) | 50/60Hz 45-55Hz/55-65Hz | | | | | | | | | | |
| Max. Output Current (A) | 6.7 | 8.4 | 10 | 13.3 | 16.5 | 20 | 25 | 28.4 | 31.9 | 39 | |
| Power Factor | 0.8 leading ...0.8 lagging | | | | | | | | | | |
| Max. Total Harmonic Distortion | <3% @Rated Output Power | | | | | | | | | | |
| DCI | <0.5%In | | | | | | | | | | |
| Efficiency | | | | | | | | | | | |
| Max. Efficiency | 98.1% | 98.1% | 98.3% | 98.3% | 98.6% | 98.6% | 98.6% | 98.6% | 98.6% | 98.6% | |
| European Efficiency | 97.9% | 97.9% | 98.0% | 98.0% | 98.2% | 98.2% | 98.2% | 98.2% | 98.2% | 98.2% | |
| MPPT Efficiency | 99.9% | 99.9% | 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 (Type II) | | | | | | | | | | |
| Over-temperature Protection | Integrated | | | | | | | | | | |
| Residual Current Protection | Integrated | | | | | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | | | | | |
| AC Short-circuit Protection | Integrated | | | | | | | | | | |
| AC Over-voltage Protection | Integrated | | | | | | | | | | |
| General Data | | | | | | | | | | | |
| Dimensions (mm) | 550W*410H*175D | | | | | | | | | | |
| Weight (KG) | 22 | | | | | 25 | | | | | |
| Protection Degree | IP65 | | | | | | | | | | |
| Self-consumption at Night (W) | < 1 | | | | | | | | | | |
| Topology | Transformer-less | | | | | | | | | | |
| Operating Temperature Range (° C) | -30~60°C | | | | | | | | | | |
| Relative Humidity | 0~100% | | | | | | | | | | |
| Operating Altitude (m) | 4000 (derating@ > 3000) | | | | | | | | | | |
| Cooling | Natural Convection | | | | | | | Smart Fan Cooling | | | |
| Noise Level (dB) | < 25 | | | | | | < 40 | | | | |
| Display | OLED & LED | | | | | | | | | | |
| Communication | RS485, WiFi/GPRS/LAN(Optional) | | | | | | | | | | |
| Compliance | NB/T32004, IEC62109, IEC62116, VDE4105, VDE0126, AS4777, C10/11, CEI0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000 | | | | | | | | | | |