



- MAX. EFFICIENCY 98.6%
- IP65 PROTECTION

STT 4~25kW

Three Phase | 2 MPPTs | ON Grid

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

SAFE & RELIABLE



- High yield with Max. Efficiency 98.6%
- 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
- With a max input current of 15A, compatible with high-power panels

HIGH YIELD



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

EASY TO USE



| Model | STT-4KTL-P | STT-5KTL-P | STT-6KTL-P | STT-8KTL-P | STT-10KTL-P | STT-12KTL-P | STT-15KTL-P | STT-17KTL-P | STT-20KTL-P | STT-25KTL-P | |
|----------------------------------|---------------------------------|------------|------------|------------|-------------|-------------|-------------|-------------------|-------------|-------------|--|
| Input | | | | | | | | | | | |
| Max. Input Power (W) | 6,400 | 8,000 | 9,600 | 12,800 | 16,000 | 19,200 | 24,000 | 27,200 | 32,000 | 40,000 | |
| Start-up Voltage (V) | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | |
| 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) | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | 160-1000 | |
| Number of MPP Trackers | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Number of DC Inputs per MPPT | 1 | 1 | 1 | 1 | 1 | 1 | 1/2 | 2 | 2 | 2 | |
| Max. Input Current (A) | 15/15 | 15/15 | 15/15 | 15/15 | 15/15 | 15/15 | 15/30 | 30/30 | 30/30 | 30/30 | |
| Max. Short-circuit Current (A) | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/40 | 40/40 | 40/40 | 40/40 | |
| Output | | | | | | | | | | | |
| Rated Output Power (W)** | 4,000 | 5,000 | 6,000 | 8,000 | 10,000 | 12,000 | 15,000 | 17,000 | 20,000 | 25,000 | |
| Max. Output Power (W) | 4,400 | 5,500 | 6,600 | 8,800 | 11,000 | 13,200 | 16,500 | 18,700 | 22,000 | 25,000 | |
| Max. Apparent Power (VA) | 4,400 | 5,500 | 6,600 | 8,800 | 11,000 | 13,200 | 16,500 | 18,700 | 22,000 | 25,000 | |
| Rated Output Voltage (V)** | 3L/N/PE, 230/400V | | | | | | | | | | |
| Rated AC Frequency (Hz) | 50/60 45-55/55-65 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| THDi @ Rated Power | < 3% | | | | | | | | | | |
| 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% | |
| Euro 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 Detection | Integrated | | | | | | | | | | |
| DC Switch | Optional | | | | | | | | | | |
| Surge Protection | Integrated | | | | | | | | | | |
| 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 [W*H*D] (mm) | 550*410*175 | | | | | | | | | | |
| Weight (kg) | 23 | | | | | | 26 | | 29 | | |
| Protection Degree | IP65 | | | | | | | | | | |
| 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 | Natural Convection | | | | | | | Smart Fan Cooling | | | |
| Noise Level (dB) | < 25 | | | | | | | < 40 | | | |
| Display | OLED & LED | | | | | | | | | | |
| Communication | RS485, WiFi/GPRS/LAN (Optional) | | | | | | | | | | |

** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.