

sunways

Sunways Single Phase with Dual MPPT
STS - 3 K ~ 6 K T L - P

MAX 98.1% EFFICIENCY

IP65 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 die casting technology
- IP65, wider working temperature and altitude, adapt to various installation environments



HIGH YIELD

- High yield with Max. 98.1% efficiency
- European weighted efficiency 97.5%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Dual MPPT design with precise MPPT algorithm



EASY TO USE

- Compact elegant design, light weight, one-person installation
- 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 | STS-3KTL-P | STS-3.6KTL-P | STS-4.2KTL-P | STS-4.6KTL-P | STS-5KTL-P | STS-6KTL-P |
|---------------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Input | | | | | | |
| Max. Input Power (W) | 4,800 | 5,760 | 6,720 | 7,360 | 8,000 | 9,600 |
| Start-up Voltage (V) | 80 | 80 | 80 | 80 | 80 | 80 |
| Min. DC Voltage (V) | 100 | 100 | 100 | 100 | 100 | 100 |
| Max. DC Input Voltage (V) | 600 | 600 | 600 | 600 | 600 | 600 |
| Rated DC Input Voltage (V) | 360 | 360 | 360 | 360 | 360 | 360 |
| MPPT Voltage Range (V) | 100-550 | 100-550 | 100-550 | 100-550 | 100-550 | 100-550 |
| No. of MPP Trackers | 2 | 2 | 2 | 2 | 2 | 2 |
| No. of DC Inputs per MPPT | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Max. Input Current (A) | 15/15 ^① | 15/15 ^① | 15/15 ^① | 15/15 ^① | 15/15 ^① | 15/15 ^① |
| Max. Short-circuit Current (A) | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 |
| Output | | | | | | |
| Rated Output Power (W) | 3,000 | 3,600 | 4,200 | 4,600 | 5,000 | 6,000 |
| Max. Output Power (W) | 3,300 | 3,960 | 4,600 | 4,600 | 5,500 * | 6,600 |
| Max. Apparent Power (VA) | 3,300 | 3,960 | 4,600 | 4,600 | 5,500 * | 6,600 |
| Rated Output Voltage (V) | 220/230 | | | | | |
| Rated AC Frequency (Hz) | 50/60Hz 45-55Hz/55-65Hz | | | | | |
| Max. Output Current for each MPPT (A) | 15 | 18 | 21 | 21 | 25 ** | 28.7 |
| Power Factor | 0.8 leading ...0.8 lagging | | | | | |
| Max. Total Harmonic Distortion | <3% @Rated Output Power | | | | | |
| DCI | <0.5%In | | | | | |
| Efficiency | | | | | | |
| Max. Efficiency | 98.1% | 98.1% | 98.1% | 98.1% | 98.1% | 98.1% |
| European Efficiency | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | | |
| DC Reverse Polarity Protection | Integrated | | | | | |
| Insulation Resistance Protection | Integrated | | | | | |
| DC Switch | Optional | | | | | |
| Surge Protection | Integrated | | | | | |
| Over-temperature Protection | Integrated | | | | | |
| Residual Current Protection | Integrated | | | | | |
| Islanding Protection | Integrated | | | | | |
| AC Short-circuit Protection | Integrated | | | | | |
| AC Over-voltage Protection | Integrated | | | | | |
| General Data | | | | | | |
| Dimensions (mm) | 410W*360H*120D | | | | | |
| Weight (kg) | 13 | | | | | |
| Protection Degree | IP65 | | | | | |
| Self-consumption at Night (W) | <1 | | | | | |
| Topology | Transformer less | | | | | |
| Operating Temperature Range (° C) | -30~60 | | | | | |
| Relative Humidity (%) | 0~100 | | | | | |
| Operating Altitude (m) | 4000 (derating@ > 3000) | | | | | |
| Cooling | Natural Convection | | | | | |
| Noise Level (dB) | < 25 | | | | | |
| 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 | | | | | |

① STS-3~6KTL series maximum input current per string is 12.5A, and STS-3~6KTL-P version is 15A, products deliver upon the order.

* : 5000 for Belgium.

** : 21.7 for Belgium.