

# ***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
- 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
- With a max input current of 15A, compatible with high-power panels



**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         |
|-----------------------------------|---|--------------------|--------------------|--------------------|----------------------------|--------------------|
| <b>Input</b>                      |   |                    |                    |                    |                            |                    |
| 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 <sup>①</sup>  | 15/15 <sup>①</sup> | 15/15 <sup>①</sup> | 15/15 <sup>①</sup> | 15/15 <sup>①</sup>         | 15/15 <sup>①</sup> |
| Max. Short-circuit Current (A)    | 20/20   | 20/20              | 20/20              | 20/20              | 20/20                      | 20/20              |
| <b>Output</b>                     |   |                    |                    |                    |                            |                    |
| Rated Output Power (W)            | 3,000   | 3,600              | 4,200              | 4,600              | 5,000/4,990 <sup>②</sup>   | 6,000              |
| Max. Output Power (W)             | 3,300   | 3,960*             | 4,600              | 4,600              | 5,500/4,990 <sup>②**</sup> | 6,600              |
| Max. Apparent Power (VA)          | 3,300   | 3,960*             | 4,600              | 4,600              | 5,500/4,990 <sup>②**</sup> | 6,600              |
| Rated Output Voltage (V)          | 220/230   |                    |                    |                    |                            |                    |
| Rated AC Frequency (Hz)           | 50/60Hz 45-55Hz/55-65Hz   |                    |                    |                    |                            |                    |
| Max. Output Current (A)           | 15  | 18***              | 21                 | 21                 | 25/21.7 <sup>②****</sup>   | 28.7               |
| Power Factor                      | 0.8 leading ...0.8 lagging  |                    |                    |                    |                            |                    |
| Max. Total Harmonic Distortion    | <3% @Rated Output Power   |                    |                    |                    |                            |                    |
| DCI                               | <0.5%In   |                    |                    |                    |                            |                    |
| <b>Efficiency</b>                 |   |                    |                    |                    |                            |                    |
| 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%              |
| <b>Protection</b>                 |   |                    |                    |                    |                            |                    |
| 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  |                    |                    |                    |                            |                    |
| <b>General Data</b>               |   |                    |                    |                    |                            |                    |
| 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, CE10-21, 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.

② The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.

\* : 3680 for G98.    \*\* : 5000 for C10/11.    \*\*\* : 16 for G98.    \*\*\*\* : 21.7 for C10/11.