



Presents

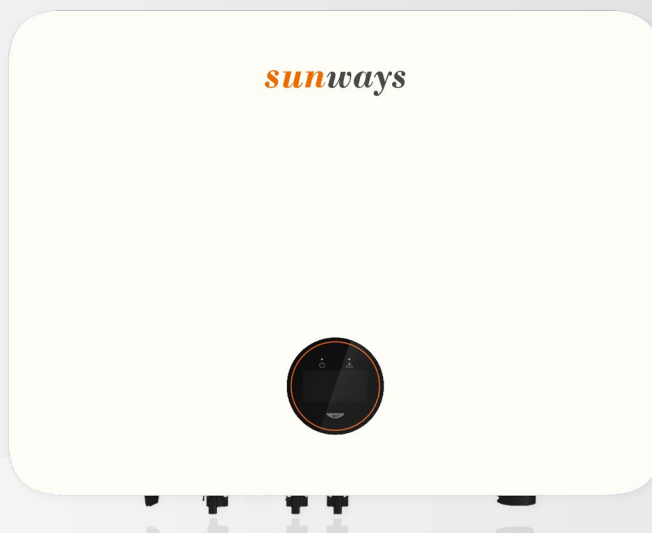
# *sunways*

Sunways Single Phase with Dual MPPT

STS - 7 K ~ 11 K T L

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 97.6%
- 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**

- 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-7KTL                                                                                                                                   | STS-8KTL | STS-9KTL          | STS-10KTL | STS-11KTL |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|-----------|-----------|
| Input                            |                                                                                                                                            |          |                   |           |           |
| Max. Input Power (W)             | 11,200                                                                                                                                     | 12,800   | 14,400            | 16,000    | 16,000    |
| Start-up Voltage (V)             | 80                                                                                                                                         | 80       | 80                | 80        | 80        |
| Max. DC Input Voltage (V)        | 600                                                                                                                                        | 600      | 600               | 600       | 600       |
| Rated DC Input Voltage (V)       | 360                                                                                                                                        | 360      | 360               | 360       | 360       |
| MPPT Voltage Range (V)           | 80~550                                                                                                                                     | 80~550   | 80~550            | 80~550    | 80~550    |
| No. of MPP Trackers              | 2                                                                                                                                          | 2        | 2                 | 2         | 2         |
| No. of DC Inputs per MPPT        | 1/2                                                                                                                                        | 1/2      | 1/2               | 1/2       | 1/2       |
| Max. Input Current (A)           | 15/30                                                                                                                                      | 15/30    | 15/30             | 15/30     | 15/30     |
| Max. Short-circuit Current (A)   | 20/40                                                                                                                                      | 20/40    | 20/40             | 20/40     | 20/40     |
| Output                           |                                                                                                                                            |          |                   |           |           |
| Rated Output Power (W)           | 7,000                                                                                                                                      | 8,000    | 9,000             | 10,000    | 11,000    |
| Max. Output Power (W)            | 7,700                                                                                                                                      | 8,800    | 9,900             | 11,000    | 11,000    |
| Rated Apparent Power (VA)        | 7,000                                                                                                                                      | 8,000    | 9,000             | 10,000    | 11,000    |
| Max. Apparent Power (VA)         | 7,700                                                                                                                                      | 8,800    | 9,900             | 11,000    | 11,000    |
| Rated Output Voltage (V)         | 220/230                                                                                                                                    |          |                   |           |           |
| Rated AC Frequency (Hz)          | 50/60                                                                                                                                      |          |                   |           |           |
| AC output rated current (A)      | 30.4                                                                                                                                       | 34.8     | 39.1              | 43.5      | 47.8      |
| Max. Output Current (A)          | 33.5                                                                                                                                       | 38.3     | 43                | 47.8      | 47.8      |
| 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%     |
| European Efficiency              | 97.6%                                                                                                                                      | 97.6%    | 97.6%             | 97.6%     | 97.6%     |
| MPPT Efficiency                  | 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)                  | 550W*410H*175D                                                                                                                             |          |                   |           |           |
| Weight (KG)                      | 24                                                                                                                                         | 26       |                   |           |           |
| Protection Degree                | IP65                                                                                                                                       |          |                   |           |           |
| Self-consumption at Night (W)    | < 1                                                                                                                                        |          |                   |           |           |
| Topology                         | Transformer less                                                                                                                           |          |                   |           |           |
| Operating Temperature Range (oC) | -30~60                                                                                                                                     |          |                   |           |           |
| Relative Humidity (%)            | 0~100                                                                                                                                      |          |                   |           |           |
| Operating Altitude (m)           | 4000 (depreciativo@ > 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、UTE C15-712-1、AS4777、C10/11、CEI0-21、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000 |          |                   |           |           |
| Country Of Manufacturer          | China                                                                                                                                      |          |                   |           |           |