



- MAX. EFFICIENCY 98.1%
- IP65 PROTECTION

### STS 3~6KTL-P

Single Phase | 2 MPPTs | On Grid

- 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

SAFE & RELIABLE



- High yield with Max. Efficiency 98.1%
- 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

HIGH YIELD



- 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

EASY TO USE



| 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            |
| Number of MPP Trackers           | 2                              | 2                  | 2                  | 2                  | 2                  | 2                  |
| Number of DC Inputs per MPPT     | 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**            | 6,000              |
| Max. Output Power (W)            | 3,300                          | 3,960*             | 4,600              | 4,600              | 5,500/5,000**      | 6,600              |
| Max. Apparent Power (VA)         | 3,300                          | 3,960*             | 4,600              | 4,600              | 5,500/5,000**      | 6,600              |
| Grid Type (V)**                  | 220/230                        |                    |                    |                    |                    |                    |
| Rated AC Frequency (Hz)          | 50/60 45-55/55-65              |                    |                    |                    |                    |                    |
| Max. Output Current (A)          | 15                             | 18***              | 21                 | 21                 | 25/21.7 ****       | 28.7               |
| Power Factor                     | 0.8 leading...0.8 lagging      |                    |                    |                    |                    |                    |
| THDi @ Rated Power               | <3%                            |                    |                    |                    |                    |                    |
| DCI                              | <0.5%ln                        |                    |                    |                    |                    |                    |
| <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                     |                    |                    |                    |                    |                    |
| Anti-islanding Protection        | Integrated                     |                    |                    |                    |                    |                    |
| AC Short-circuit Protection      | Integrated                     |                    |                    |                    |                    |                    |
| AC Over-voltage Protection       | Integrated                     |                    |                    |                    |                    |                    |
| <b>General Data</b>              |                                |                    |                    |                    |                    |                    |
| Dimensions [W*H*D] (mm)          | 410*360*120                    |                    |                    |                    |                    |                    |
| Weight (kg)                      | 13                             |                    |                    |                    |                    |                    |
| 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             |                    |                    |                    |                    |                    |
| Noise Level (dB)                 | < 25                           |                    |                    |                    |                    |                    |
| Display                          | OLED & LED                     |                    |                    |                    |                    |                    |
| Communication                    | RS485/WiFi/GPRS/LAN (Optional) |                    |                    |                    |                    |                    |

① STS-3~6KTL-P version is 15A, products deliver upon the order.

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

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