

# **SUNTWINS Series Dual MPPT String Inverter**



#### **Features**

#### High performance string inverters

- From 3.0KW to 5.0KW
- > Wide PV input voltage range
- > Rapid MPPT tracking technology
- > Two MPPT trackers
- > Superior PV energy harvest
- > Transformerless design with higher operation efficiency
- > Excellent thermal performance
- > High overload capability under most ambient conditions

#### Full data display and communications

- > LCD display energy data
- > Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- > Integrated RS232 serial communications

#### Easy and affordable to install

- > Lightweight and compact size
- > Includes a lightweight portable bracket simplifying installation
- > Firm IP65 inverter enclosure allows outdoor application

#### Cost advantages

- > Transformerless design cutting down the cost
- > Light weight and small dimension, reducing shipping cost
- ➤ IP65 protection degree, suitable for outdoor installation, reducing construction cost
- > Low maintenance expense

### Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11



## Technical data

| Model (SUNTWINS)          | 3300TL                        | 4000TL            | 5000TL            |
|---------------------------|-------------------------------|-------------------|-------------------|
| Input (DC side)           |                               |                   |                   |
| Max. DC Input Power       | 3600W                         | 4380W             | 5300W             |
| Max DC Voltage            |                               | 500Vdc            |                   |
| Start Voltage             | 150Vdc                        |                   |                   |
| MPPT Operating Range      | 100~450Vdc                    |                   |                   |
| Number of Inputs          | 2                             |                   |                   |
| Number of MPP Trackers    |                               | 2                 |                   |
| Max. Input Power per MPPT | 2000W                         | 2300W             | 3000W             |
| Max. Input Current        | IN1: 10A/IN2: 10A             | IN1: 13A/IN2: 13A | IN1: 15A/IN2: 15A |
| Output (AC side)          |                               |                   |                   |
| Nominal Output Power      | 3300W                         | 4000W             | 4950W/5000W       |
| Max. Output Power         | 3300W                         | 4000W             | 4950W/5000W       |
| Nominal Output Current    | 14.3A                         | 17.4A             | 21.5A             |
| Max. Output Current       | 16.5A                         | 20.0A             | 25.0A             |
| Nominal AC Output Voltage |                               | 230Vac            |                   |
| AC Output Voltage Range*  | 190~265Vac                    |                   |                   |
| AC Grid Frequency Range*  | 50±5Hz                        |                   |                   |
| Power Factor (cosφ)       | >0.99                         |                   |                   |
| THDI                      | <3% (at nominal output power) |                   |                   |
| Efficiency                |                               |                   |                   |
| Max Efficiency            | 97.4%                         | 97.6%             | 97.6%             |
| Euro Efficiency           | 97.0%                         | 97.1%             | 97.1%             |
| MPPT Efficiency           | 99.6%                         | 99.6%             | 99.6%             |
| System                    |                               |                   |                   |
| Operating Temperature     |                               | -25°C~+60°C       |                   |
| Noise (typical)           | ≤25dB (A)                     |                   |                   |
| Consumption at night      | 0W                            |                   |                   |
| Electrical Isolation      | Transformerless               |                   |                   |
| Cooling Concept           | Natural Cooling               |                   |                   |
| Degree of Protection      | IP65                          |                   |                   |
| Communication             | RS232 (WiFi Optional)         |                   |                   |
| Dimension (W*D*H mm)      |                               | 345*152*435       |                   |
| Weight (kg)               | 16.5                          | 18                | 18                |

 $<sup>^{\</sup>star} AC$  grid voltage range and frequency range depend on local standards.