

SUNTWINS Series Dual MPPT String Inverter



Features

High performance string inverters

- From 3.3kW 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

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

Easy and affordable to install

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

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 (W)	3450	4160	5200
Max. DC voltage (Vdc)	500		
Start voltage (Vdc)	150		
MPPT operating range (Vdc)	100~450		
Number of inputs	2		
Number of MPPT trackers	2		
Max. Input power per MPPT (W)	2000	2300	3000
Max. input current (A)	2*10	2*13	2*15
Output (AC Side)			
Nominal output power (W)	3300	4000	5000
Max. output power (W)	3300	4000	5000
Nominal output current (A)	14.3	17.4	21.6
Max. output current (A)	16.5	20.0	25.0
Nominal AC output voltage (Vac)	230		
AC output voltage range (Vac)*	185~265		
AC grid frequency range (Hz)*	50±5		
Power factor (cosφ)	>0.99		
THDI	<3% (at nominal output power)		
Efficiency			
Max. efficiency	97.3%	97.5%	97.5%
Euro. efficiency	96.5%	96.8%	96.7%
MPPT efficiency	99.6%	99.6%	99.6%
System			
Operating temperature (°C)	-25~+60		
Noise (typical) [dB (A)]	≤25		
Consumption at night (W)	0		
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

*AC grid voltage range and frequency range depend on local standards.