

# SUNTREE Series Three-Phase String Inverter



SUNTREE 5000TL~30000TL

## Features

### High performance string inverters

- From 5.0kW to 30.0kW
- Famous power components
- Superior PV energy harvest
- Excellent thermal performance
- Transformerless design with higher operation efficiency
- 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 RS485/RS232 serial communications

### Easy and affordable to install

- Lightweight and compact size
- Wide MPPT voltage range allows more flexible module selections
- 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
- Low maintenance expense and low power loss when breakdown

## Certificates and Standards

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 (SUNTREE)	5000TL	6000TL	8000TL	10000TL	12000TL	15000TL	17000TL	20000TL	30000TL
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### Input (DC Side)

Max. Power of PV Array (W)	5500	6600	9000	11200	13300	16500	19000	22000	33000
Max. DC Voltage (Vdc)	900			1000					
MPPT Operating Range (Vdc)	250~800								
Number of Inputs	2			4		6		10	
Number of MPPT Trackers	2								
Max. Input Power per MPPT (W)	3500	4000	5000	6000	7000	8500	9500	11000	16500
Max. Input Current (A)	2*10	2*12	2*16	2*22	2*24	2*30	2*32	2*35	2*33

### Output (AC Side)

Rated Power (W)	5000	6000	8000	10000	12000	15000	17000	20000	30000
Max. Output Power (W)	5000	6000	8000	10000	12000	15000	17000	20000	30000
Rated Output Current (A)	7.3	8.7	11.6	15.2	17.4	22.7	25.8	30.3	44.5
Max. Output Current (A)	7.9	9.5	12.7	16.0	19.4	25.0	28.3	33.3	48
Nominal Output Voltage (Vac)	400								
Output Voltage Range (Vac)*	360~440								
Grid Frequency Range (Hz)*	50/60±5								
Power Factor	0.9 (leading)~0.9 (lagging)								
THDI	<3% (at nominal output power)								

### Efficiency

Max. efficiency	97.6%	97.8%	98.1%	98.1%	98.1%	98.1%	98.1%	98.2%	>98.1%
Euro. efficiency	96.7%	96.9%	97.3%	97.5%	97.6%	97.5%	97.6%	97.6%	>97.5%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	>99.6%

### System

Operation Temperature (°C)	-25~+60								
Noise [dB (A)]	≤25			≤50				≤65	
Loss (W)	0								
Isolation	Transformerless								
Cooling Concept	Natural cooling				Fan Cooling				
Protect Level	IP65								
Communication	RS485/RS232 (WiFi optional)								
Dimension (W*D*H mm)	470*165*560			470*165*585		470*165*670		580*235*800	
Weight (kg)	32			35		50		65	

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