



# SUNTREE Series Three Phase String Inverter



## 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

### 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

### 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

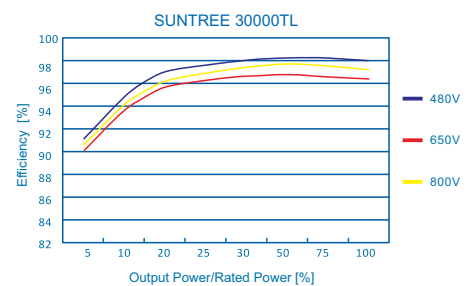
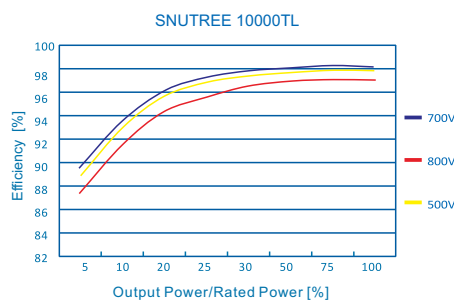
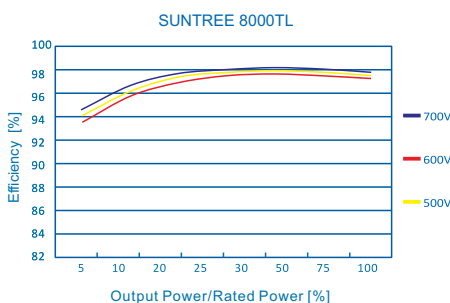
### Cost Advantages

- Transformerless design cutting down the cost
- Light weight and small dimension, reducing shipping cost
- Integrated procurement and assembly line of operation, reducing production cost
- IP65 protection degree, suitable for outdoor installation, reducing construction cost
- Low maintenance expense and low power loss when breakdown



SUNTREE 5000TL~SUNTREE 30000TL

## Typical Efficiency Curve



## Technical data

Model (SUNTREE)	5000TL	6000TL	8000TL	10000TL	12000TL	15000TL	17000TL	20000TL	30000TL	
<b>Input (DC side)</b>										
Max. DC Input Power	5180W	6200W	8300W	11200W	13300W	15800W	17900W	21000W	32000W	
Max DC Voltage	900Vdc			1000Vdc						
Start Voltage	250Vdc									
MPPT Operating Range	250~720Vdc			250~800Vdc						
Number of Inputs	2			4		6		10		
Number of MPPT Trackers	2									
Max. Input Power per MPPT	3500W	4000W	5000W	6000W	7000W	8500W	9500W	11000W	16500W	
Max Input Current	20A	24A	32A	44A	48A	60A	64A	70A	82A	
<b>Output (AC side)</b>										
Nominal Output Power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	30000W	
Max Output Power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	30000W	
Rated Output Current	7.3A	8.7A	11.6A	14.5A	17.4A	21.7A	24.6A	29.0A	43.5A	
Max. Output Current	7.9A	9.5A	12.7A	16.0A	19.4A	24.3A	27.5A	32.3A	48A	
Nominal Output Voltage	400Vac									
Output Voltage Range*	330~480Vac									
Grid Frequency Range*	50/60±5Hz									
Power Factor	0.9 (leading)~0.9 (lagging)									
THDI	<3% (at nominal output power)									
<b>Efficiency</b>										
Max Efficiency	97.6%	97.8%	98.1%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	
Euro Efficiency	96.7%	96.9%	97.3%	97.6%	97.6%	97.6%	97.6%	97.6%	97.8%	
MPPT Efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.9%	
<b>System</b>										
Operation Temperature	-25°C~+60°C									
Noise	≤25dB (A)			≤50dB (A)				≤65dB (A)		
Consumption at night	0W									
Electrical Isolation	Transformerless									
Cooling Concept	Natural Cooling				Fan Cooling					
Degree of Protection	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		60		

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