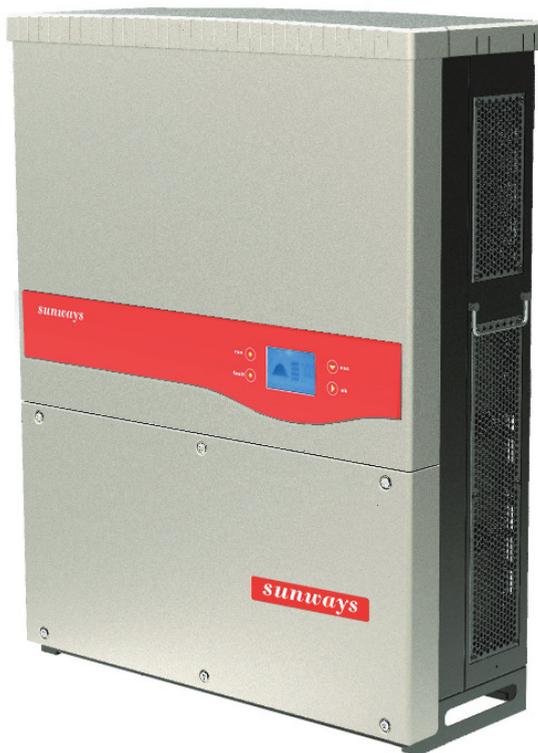


# SOLAR INVERTER

## Sunways Solar Inverter ST 30



This Sunways solar inverter is part of a completely new family of devices. It has been engineered with dual MPP tracking and provides a maximum efficiency of 98.3%. Sunways Solar Inverter ST 30 can be easily handled without lift machinery, leading to lower installation and maintenance costs. Sunways Solar Inverter ST 30 offers highest flexibility resulting from a wide MPP tracking voltage range.

### Top technologies combined

- Dual MPP tracking, ensuring a fast and precise control in each output range.
- Transformerless topology.
- Suitable for indoor and outdoor installation (IP 65).

### Solar inverter features

- Sunways Solar Inverter ST 30 offers an improved product quality and an excellent durability.
- With peak efficiencies of 98.3% and an input voltage range from 280 V to 1000 V, the Sunways Solar Inverter ST 30 offers an optimum yield for more interconnection options.
- Sunways Solar Inverter ST 30 can be used throughout Europe: the country of installation can be set directly on site at the touch of a button.

### User-friendly device

- User-friendly interface and easy-setting multilingual LCD display.
- Easy configuration for different country grid standards.
- Flexible setting with single or dual MPP tracking.

### Information and Sales

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***sunways***  
Photovoltaic Technology

## Technical Data

### Sunways Solar Inverter ST 30

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Order number	ST 30 SI330ST0A
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<b>DC input</b>	
Rated DC power	32000 W
DC Power Limit / MPP Input	16000 W
Maximum DC current	66 A (33 A per MPP input)
Nominal DC voltage	650 V
Startup voltage	300 V
MPP voltage range (full load)	480 V ... 800 V
MPP voltage range	280 V ... 950 V
Maximum voltage DC	1000 V
Number of inputs per MPP tracker	5
Number of MPP trackers	2 (easy paralleling possible)
DC connection type	MC4

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<b>AC output</b>	
Rated AC output power	30000 W
Maximum AC power apparent	33120 VA
Nominal AC current	43.5 A per phase
Maximum AC current	48.0 A per phase
Nominal frequency	50 Hz
Frequency range	45.0 Hz ... 55.0 Hz (may vary depending on country's grid standards)
Nominal grid voltage	230/400 V
Grid voltage range	310 V ... 450 V (may vary depending on country's grid standards)
Distortion factor at Pn	< 3%
Reactive power factor (cos phi)	> 0.99 or adjustable from -0.9 to +0.9
Anti-islanding protection	Yes
DC current injection	< 0.5% In
Required phases, number of grid connections	3 (L1, L2, L3, N, PE)

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<b>Performance</b>	
Night-time consumption	< 1 W
Maximum efficiency	98.3%
European efficiency	98.0%
MPP efficiency (static)	> 99%
Switching concept	Transformerless

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<b>Other</b>	
DC switch	Integrated
Overvoltage protection	Type II DIN rail surge arresters
DC fuses	Integrated
Grid-connection fuse layout	≥ 50A
Data interface	RS 485
Display	Graphic LCD
Ingress protection	IP 65 (fans IP 55)
Max. relative humidity	0-95% (non-condensing)
Max. altitude over sea level	4000 m (> 2000 m derating)
Cooling	Active cooling with fans
Ambient temperature	-25°C ... 60°C (> 45° C derating)
Dimensions (height x width x depth)	82.0 x 63.4 x 25.7 cm
Weight	65 kg
Type of installation	Wall installation
Standard warranty	5 years (extension optional)
Certificates	CE, BDEW, VDE-AR-N-4105, VDE0126-1-1, G59/2, CEI-021, AS/NZS 3100, AS4777.2, AS4777.3 Further certificates under <a href="http://www.sunways.eu/en">www.sunways.eu/en</a>

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Subject to technical changes, as of 09/2013

Efficiency curve for Sunways Solar Inverter ST 30

