

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

| | ST 30 |
|---|--|
| Order number | SI330ST0A |
| DC input | |
| 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 |
| AC output | |
| 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) |
| Performance | |
| Night-time consumption | < 1 W |
| Maximum efficiency | 98.3% |
| European efficiency | 98.0% |
| MPP efficiency (static) | > 99% |
| Switching concept | Transformerless |
| Other | |
| 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 www.sunways.eu/en |

Subject to technical changes, as of 09/2013

Efficiency curve for Sunways Solar Inverter ST 30

