

SOLAR INVERTER

ADVANCE ANNOUNCEMENT



Three-phase Sunways Solar Inverters NT 10000, NT 11000 and NT 12000

The successful NT 10000 inverter from Sunways has been completely re-engineered and will be complemented by two additional output classes, NT 11000 and NT 12000. The new three-phase NT series with HERIC® topology, three-phase feed technology and a maximum efficiency of 97.6% sets new standards.

Top technology

The device combines high-precision MPP multitracking with three separate DC inputs and the patented HERIC® circuitry. The fast and precise MPP control already integrated in the AT series is now also available in the Solar Inverters from the NT series. A key feature of the exclusive HERIC® circuitry is the maximum efficiency of up to 97.6%.

New features

- With an input voltage range between 340 and 900 V and three configurable inputs the new device series offers even more interconnection options.
- The new NT series can be used throughout Europe: the country of installation can be set directly on site at the touch of a button.

«All-in-One»

The Sunways NT series offers the following features as standard:

- Integrated DC load break switch
- Illuminated graphic display and keypad
- Comprehensive internal 128 MB data logger
- Inverter networking via CAN bus
- Ethernet interface for integration in networks
- Interface for direct modem connection
- Active e-mail alert in case of system faults
- Potential-free alarm relay for connecting external alarm devices
- S0 pulse output for controlling the Sunways display
- Integrated Sunways Browser for evaluation and configuration via a web browser

Information and Sales

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Technical Data Sunways Solar Inverters NT 10000, NT 11000 and NT 12000

	NT 10000	NT 11000	NT 12000
DC Input			
Rated DC power	10500 W	11550 W	12600 W
Maximum DC current	11,0 A per MPP input	11,5 A per MPP input	12,8 A per MPP input
MPP voltage range	340 V		
MPP voltage range	340 V...750 V		
Maximum voltage DC	900 V		
Number of inputs per MPP tracker	1 x Tyco Solarlok		
Number of MPP trackers	3		
AC output			
Rated AC output power	10000 W	11000 W	12000 W
Maximum AC power	10000 W	11000 W	12000 W
Maximum AC current	14,5 A pro Phase	16,0 A pro Phase	17,4 A pro Phase
Nominal AC current	16,0 A pro Phase	17,5 A pro Phase	19,0 A pro Phase
Nominal frequency	50 Hz		
Frequency range	47,5 Hz...50,2 Hz (according to DIN VDE 0126-1-1)		
Grid voltage	400 V		
AC voltage range	-20%...+15% (according to DIN VDE 0126-1-1)		
Distortion factor at Pn	< 2%		
Reactive power factor (cos phi)	1 or adjustable from -0,9 to +0,9		
Grid voltage monitoring	according to DIN VDE 0126-1-1		
Earth fault protection	RCD (according to DIN VDE 0126-1-1)		
Insulation, frequency and DC current monitoring	integrated (according to DIN VDE 0126-1-1)		
Required phases, number of grid connections	3 (L1, L2, L3, N, PE)		
Number of feed-in phases (230 V single-phase)	3		
Performance			
Stand-by consumption	9,0 W		
Night-time consumption	~0 W		
Maximum efficiency	97,6%		
European efficiency	97,1%		
MPP efficiency (static)	> 99%		
Switching concept	HERIC® topology, transformerless		
Other			
DC switch	integrated		
Grid-connection fuse layout	3 x 25 A		
Data interfaces	Ethernet, CAN, RS485, voltageless alarm relay, 50 pulse output, modem		
Sensor interfaces	irradiation, temperature		
Display	LCD, backlit, 128 x 64 pixels		
Plant supervision	active alarm via e-mail, Sunways Browser, Sunways Portal		
IP degree of protection according to IEC 60529	IP 54		
Max. relative humidity	95%		
Cooling	active cooling, temperature controlled		
Ambient temperature	-25°C ... 40°C (at full load)		
Overload behaviour	working point adjustment		
Dimensions (height x width x depth)	84 x 53 x 21 cm		
Weight	ca. 31 kg		
Type of installation	wall installation		
Noise development	< 60 dB (A)		
Standard warranty (option)	5 years (10 / 15 / 20 / 25 years)		
Certificates	CE, DIN VDE 0126-1-1		

Values based on 230 V mains voltage

Subject to technical changes, as at 02/2010