SOLAR INVERTER

Sunways Solar Inverter PT 30k

For the new Solar Inverter PT 30k, the following applies: Its technology is decisive for its performance. Thanks to a three-phase feed with an output power of up to 30 kW, which is based on the proven HERIC© topology, it achieves top yields and is especially suitable for large photovoltaic systems.

HERIC® topology for maximum performance
The Sunways Solar Inverter PT 30k achieves absolutely top values for both the European and the maximum efficiency. Due to its maximum DC input voltage of 1000 V, the Solar Inverter PT 30k enables the most efficient utilisation of the possible system voltage of solar modules. The advantage: an optimisation of the installation costs, which especially pays off with large photovoltaic systems.

«All-in-one» – everything under control
Due to the communication interfaces integrated as standard, the Sunways Solar Inverter PT 30k makes an important contribution to the reliable operation of photovoltaic systems. For example, it has the latest CAN bus technology for inverter networking, an integrated web server, an active alarm system and many other practical features.

Service-friendly and safe
All assemblies can be reached safely and conveniently through the easy-open panels on the front and back of the housing. This design, which permits access from two sides, enables the necessary maintenance to be conducted quickly and at low cost. Optionally available maintenance contracts round off the service quality of the Solar Inverter PT 30k. All DC and AC disconnection points are integrated in the device, enabling the safe disconnection of the Solar Inverter PT 30k from the public power grid.

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sunways
Photovoltaic Technology

Technical Data Sunways PT Solar Inverter

	PT 30k	
Article no.	SI330P10A	IP42 protection class
	SI330P20A	IP42 protection class, with DC overvoltage protection
	SI330P30A	IP54 protection class
	SI330P40A	IP54 protection class, with DC overvoltage protection
DC Input		
Rated DC power	31000 W	
Maximum DC current	75.0 A	
Nominal DC voltage	700 V	
MPP voltage range	420 V to 800 V	
Minimum MPP voltage at full load	420 V	
Maximum voltage DC	1000 V	
Number of inputs per MPP tracker	1 x Wago rail-mounted terminal blocks 35 mm^2	
Number of MPP trackers	1	
AC output		
Rated AC output power	30000 W	
Maximum AC power	30000 W	
Nominal AC current	43.5 A per phase	
Maximum AC current	ca. 45.0 A per phase	
Nominal frequency	50 Hz	
Frequency tolerance range	47.5 Hz to 50.2 Hz (according to DIN VDE 0126-1-1)	
Grid voltage	400 V	
AC voltage range	-20% to +15% (according to DIN VDE 0126-1-1)	
Distortion factor at Pn	< 3%	
Reactive power factor (cos phi)	ca. 1	
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	< 4 W	
Night-time consumption	ca. 0 W	
Maximum efficiency	> 97.5%	
European efficiency	> 97.0%	
MPP efficiency (static)	99.99%	
Switching concept	HERIC® topology, three-phase, transformerless	
Other		
DC switch	integrated	
Grid-connection fuse layout	3 x 63 A	
Data interfaces	Ethernet, CAN, voltageless alarm relay, S0 pulse output, modem	
Sensor interfaces	irradiation, temperature	
Display	LCD, backlit, 128 x 64 pixels	
Plant supervision	active alarm via e-mail, integrated web-server, Sunways Communictor, Sunways Portal	
IP degree of protection according to IEC 60529	IP 42 / IP 54 (optional)	
Max. relative humidity	95%	
Cooling	active cooling with fan	
Ambient temperature	-25 °C to 40 °C (at full load)	
Overload behaviour	working point adjustment	
Dimensions (height x width x depth)	100 x 60 x 40 cm	
weight	155 kg	
Type of installation	standing installation	
Standard warranty (option)	5 years (with maintenance contract up to 20 years)	
Certificates	CE, DIN VDE 0126-1-1	

Subject to technical changes, as at 06/2008