



SolarMax TS-Series

The all-round solution for large-scale PV installations



330 to 1.440 kW

SolarMax TS-Series

Specifications

330 to 1.444 kW



		SolarMax 330 / 660 / 990 / 1320 TS-SV	SolarMax 360 / 720 / 1080 / 1440 TS-SV
Input values	MPP-voltage range	450 ... 800 V	510 ... 800 V
	Maximum DC-voltage	900 V	900 V
	Maximum DC-current	720 / 1.440 / 2.160 / 2.880 A	720 / 1.440 / 2.160 / 2.880 A
	Number of MPP-Trackers	1 or 3 / 6 / 9 / 12	1 or 3 / 6 / 9 / 12
	Connection type	Threaded bolts M8	
	Number of string connections	2	
Output values	Rated output power	330 / 660 / 990 / 1.320 kW ¹⁾	360 / 720 / 1.080 / 1.440 kW ²⁾
	Maximum apparent output power	340 / 680 / 1.020 / 1.360 kVA	370 / 740 / 1.110 / 1.480 kVA
	Maximum AC current	700 / 1.400 / 2.100 / 2.800 A	666 / 1.332 / 1.998 / 2.664 A
	Nominal mains voltage	3 x 280 V	3 x 320 V
	Mains nominal frequency / range	50 Hz / 45 Hz...55 Hz (60 Hz / 55 Hz...65 Hz upon request)	
	Power factor cos (φ)	Adjustable from 0.8 overexcited to 0.8 underexcited	
	Distortion factor at rated output power	< 3 %	
	Connection type	3 x 3 threaded bolts M8	
	Grid connec	Three-phase (without a neutral conductor)	
	Overvoltage Category	2	
Efficiency	Max. efficiency	98 %	98 %
	Euro efficiency ³⁾	97.2 %	97.4 %
Power input	Own consumption (night)	< 7 / 14 / 21 / 28 W	
Ambient conditions	Protection type compliant with EN 60529	IP20	
	Ambient temperature range	-20°C ... +50°C	
	Ambient temperature range for rated power output	-20°C ... +45°C	
	Relative humidity	0 ... 98 % (without condensation)	
	Maximum altitude above sea level	2.000 m (without derating)	
	Noise emissions	< 65 dBA (1.5 m)	
	Degree of soiling	PD2	
Configuration	Display (in MCU)	Graphic LC display with backlight and status-LED	
	Data logger (in MCU)	Data logger for energy yield, peak output and operating duration of the last 31 days, 12 months, 10 years	
	Galvanic insulation	No galvanic isolation: direct connection to MV transformer	
Standards & guidelines	EMC	EN 61000-6-2 / EN 61000-6-4	
	Standard / guideline compliance	BDEW MV-Guidelines ⁴⁾ / RD 661	
	Device safety	EN 62109-1	
Interfaces	Data communication (in MCU)	RS485 / Ethernet via two RJ45-sockets	
	Status signalling contact (in MCU)	Potential-free terminal contact pair (configurable function)	
	Alarm input (in MCU)	Terminal contact pair for connection to MaxConnect plus	
	Inverter shut-off 1	Two terminal contact pairs (can be chain-linked via several SolarMax TS-SV)	
	Inverter shut-off 2 (in MCU)	Terminal contact pair	
Weight & dimensions	Weight	990 / 1.980 / 2.970 / 3.960 kg	
	Dimensions in mm (W x H x D)	1 / 2 / 3 / 4 x 1.200 x 1.970 x 800 mm	
Warranty	Standard warranty	2 years	
	Warranty extensions	To 5, 10, 15, 20 or 25 years	

1) At cos(φ) = 1, UAC = 280 V.

2) At cos(φ) = 1, UAC = 320 V.

3) In single-MPPT operation with active load optimisation
(see operating instructions parameter configuration with MaxTalk 2 Pro).

4) In preparation.

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The quality management system of the SolarMax Produktions GmbH is certified according to ISO 9001:2015.

