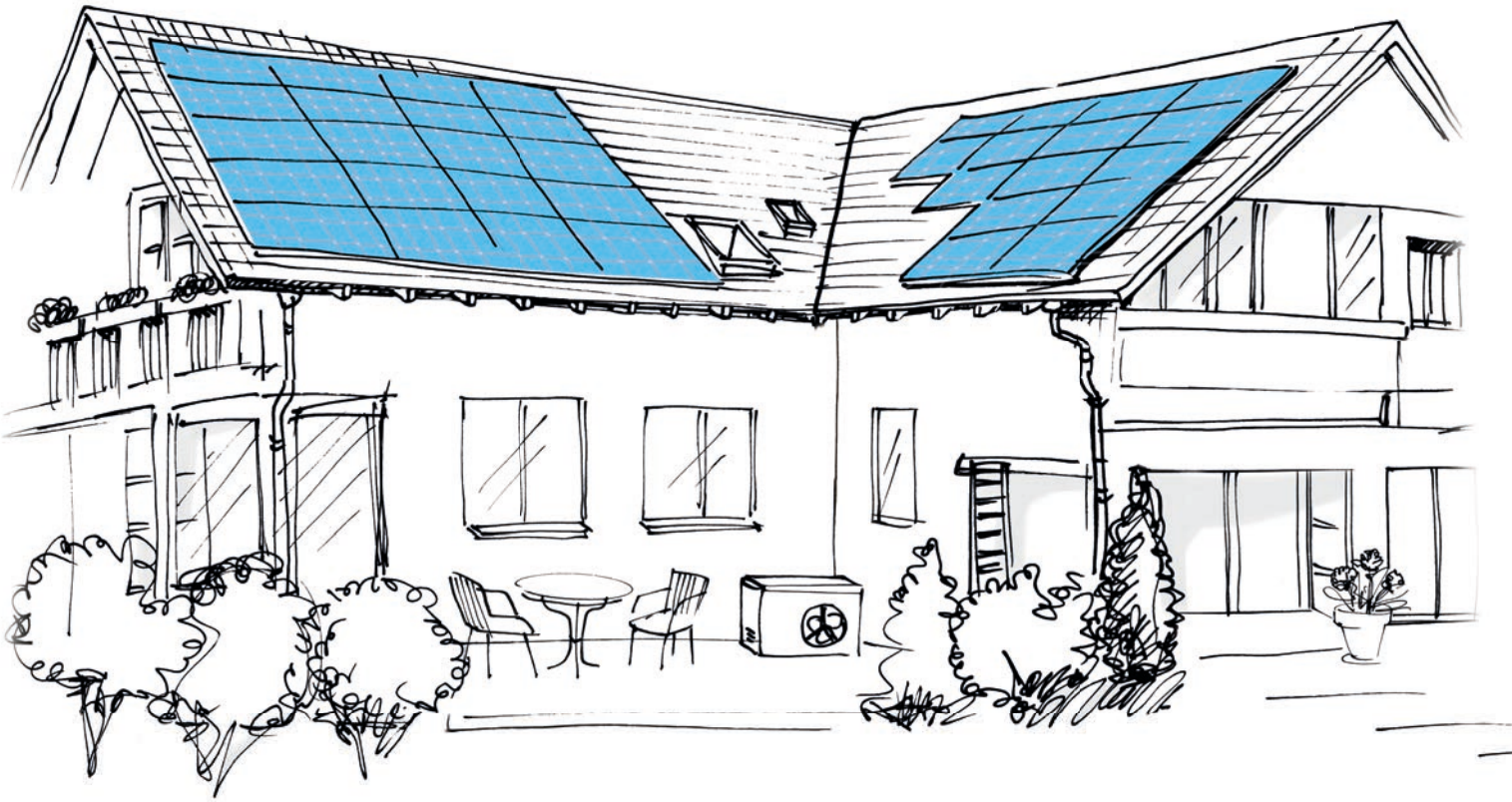
Specialcampaign!
10 years warranty*
May 17. to August 17. 2016

SolarMax®

SolarMax TP-Series

The small inverter for residential PV plants

3phase (5-7 kW)



SolarMax TP-Series

Specifications

3phase (5-7 kW)

		SolarMax 5TP2	SolarMax 6TP2	SolarMax 7TP2
Input values	MPP-voltage range [1]	260 ... 750 V	310 ... 750 V	360 ... 750 V
	Control range	250 ... 840 V	250 ... 840 V	250 ... 840 V
	Minimum DC-voltage	250 V	250 V	250 V
	Maximum DC-voltage	900 V	900 V	900 V
	Maximum DC-current	10 + 10 A	10 + 10 A	10 + 10 A
	Number of MPP-Trackers	2	2	2
	Max. PV generator output power per MPPT	5.000 Wp	5.000 Wp	5.000 Wp
	Number of string connections	2	2	2
	Connection type	Wieland PST40i1 (identical to MC4)		
Output values	Rated output power [2]	5.000 W	6.000 W	7.000 W
	Maximum apparent output power [2]	5.000 VA	6.000 VA	7.000 VA
	Maximum AC current	3 x 7,5 A	3 x 9,5 A	3 x 10,2 A
	Nominal mains voltage	3 x 400 V		
	Mains nominal frequency / range	50 Hz / 45 Hz ... 55 Hz		
	Power factor cos (φ)	Adjustable from 0,8 overexcited to 0,8 underexcited		
	Distortion factor at rated output power	< 3 %		
	Connection type	Terminal (2,5 - 10 mm²)		
	Grid connection	Three phase (L1 / L2 / L3 / N / PE)		
	Power input at night	< 0,1 W		
Efficiency	Max. efficiency	97,6 %	97,6 %	97,6 %
	Euro efficiency	96,5 %	96,6 %	96,7 %
Ambient conditions	Protection class	IP65		
	Ambient temperature range (for rated power output)	-20°C ... + 60°C (+45°C)		
	Relative humidity	0 ... 100 % (condensation)		
	Maximum operating level above sea level	2.000 m		
	Fire protection	According EN 62109-1/ -2		
	Noise emissions (1,5 m)	< 30 dBA (fan off) / < 58 dBA (fan on)		
Configuration	Display	LC graphics display with backlighting and status LED		
	Inverter topology	Transformerless		
	DC disconnector	Integrated		
	Data logger	Energy yield, peak output, and operating duration of the last 31 days, 12 months, 10 years. Performance curves of the last 7 days.		
	Fault current monitoring	Internal, AC/DC sensitive		
	Housing / service cover	Aluminium / plastic ASA+PC		
	Overvoltage conductor, DC and AC	Requirement class D (VDE 0675-6) and/or type 3 (EN 61643-11)		
Standard & guidelines	EMC	EN 61000-3-2 / EN 61000-3-3 / EN 61000-6-2 / EN 61000-6-3		
	Grid connection	VDE 0126-1-1 (A1:2012 / 2013) / VDE-AR-N 4105 E8001-4-712		
	Device safety	EN 62109-1/ -2		
Interfaces	Data communication	RS485 / Ethernet (Plug & Play)		
	Status signaling contact	Integrated		
	Connection ripple control signal receiver	Integrated		
	Connection lightning protection monitor	Integrated		
	Connection to external grid monitoring	Integrated		
	Connection to external energy counter	S0		
Weight & Dimensions	Weight	21 kg	21 kg	21 kg
	Dimensions (W x H x D)	476 x 360 x 180 mm		
Warranty	Standard warranty	Standard 5 years - *Specialcampaign 10 years (May 17. - August 17. 2016 - while stocks last)		
	Warranty extensions	to 10, 15, 20 oder 25 years		

[1] for AC rated power output at symmetrical design
[2] Depending on the country setting, deviating values are possible

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The quality management system of the SolarMax Produktions GmbH is certified according to ISO 9001:2008.

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