



SolarMax P-Series

The power package for residential solar plants



**Single-phase
2 kW - 5 kW**

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Specifications

Single-phase
2 kW - 5 kW



		2000P	3000P	4000P	4600P	5000P
Input values	MPP-voltage range ¹⁾	210 V ... 480 V	310 V ... 480 V	210 V ... 480 V	240 V ... 480 V	260 V ... 480 V
	Control range	120 V ... 580 V				
	Minimum DC-voltage	120 V				
	Maximum DC-voltage	600 V				
	Maximum DC-current	10 A		10 A + 10 A		
	Number of MPP-Trackers	1		2		
	Number of string connections	1		2		
	Connection type	Wieland PST40i1 (identical to MC 4)				
Output values	Rated output power ²⁾	2,000 W	3,000 W	4,000 W	4,600 W	5,000 W
	Maximum apparent output power ²⁾	2,000 VA	3,000 VA	4,000 VA	4,600 VA	5,000 VA
	Maximum AC current	9 A	13.5 A	17.5 A	22 A	
	Nominal mains voltage	230 V / 184 V ... 276 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 mm ² - 10 mm ²)				
	Grid connection	Single-phase (L / N / PE)				
	Power input at night	0 W				
Efficiency	Max. efficiency	97.5 %			98.0 %	
	Euro efficiency	97.0 %			97.5 %	
Ambient conditions	Protection class	IP 65				
	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 (without derating)				
	Fire protection	according EN 62109-1/ -2				
	Noise emissions (1,5 m)	< 30 dB(A)				
Configuration	Display	LC graphics display with backlighting and status-LED				
	Inverter topology	Transformerless				
	DC disconnecter	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	EMV	EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3				
	Grid connection	VDE 0126-1-1 A1:2012 / VDE 0126-1-1 A1:2013 / VDE-AR-N 4105:2011 ³⁾ / CEI 0-21 / RD 661 / RD 1699 G83/2				
	Device safety	EN 62109-1/ -2				
Interfaces	Data communication	RS485 / Ethernet (Plug & Play)				
	Status signaling contact	With optional I/O module				
	Connection ripple control signal receiver					
	Connection external surge protection					
	Connection external grid monitoring					
Weight & Dimensions	Weight	17 kg		19 kg		
	Dimensions (B x H x T)	476 x 360 x 180 mm				
Warranty	Standard warranty	5 years				
	Warranty extensions	To 10, 15, 20 or 25 years				

¹⁾ For AC rated power output.

²⁾ Depending on the country setting, deviating values are possible.

³⁾ Not for 5000P.

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

