



SolarMax MT-Series

The all-rounder for trade and industry



**Three-phase
8 kW - 15 kW**

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Specifications

Three-phase
8 kW - 15 kW



		8MT2	10MT2	13MT2	15MT2	13MT3	15MT3
Input values	MPP-voltage range ¹⁾	300 V ... 750 V	290 V ... 750 V	370 V ... 750 V	430 V ... 750 V	280 V ... 750 V	320 V ... 750 V
	Control range	250 V ... 750 V					
	Minimum DC-voltage	250 V					
	Maximum DC-voltage	900 V					
	Maximum DC-current	1 x 18 A/1 x 9 A	2 x 18 A	2 x 18 A	2 x 18 A	3 x 16 A	3 x 16 A
	Number of MPP-Trackers	2				3	
	Max. PV generator output power per MPP tracker	MPPT1: 9,000 Wp MPPT2: 5,000 Wp	9,000 Wp				
	Number of string connections	1 x 2 / 1 x 1	2 x 2			3 x 2	
Connection type	MC4						
Output values	Rated output power ²⁾	8,000 W	10,000 W	13,000 W	15,000 W	13,000 W	15,000 W
	Maximum apparent output power ²⁾	8,000 VA	10,000 VA	13,000 VA	15,000 VA	13,000 VA	15,000 VA
	Maximum AC current	3 x 12 A	3 x 16 A	3 x 20 A	3 x 22 A	3 x 20 A	3 x 22 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	Connector (locking)					
	Grid connection	Three-phase (L1 / L2 / L3 / N / PE)					
	Power input at night	0 W					
Efficiency	Max. efficiency	98.0 %					
	Euro efficiency	97.5 %					
Ambient conditions	Protection class	IP65					
	Ambient temperature range (for rated power output)	- 20 °C ... + 60 °C (+ 50 °C)					
	Relative humidity	0 % ... 98 % (without condensation)					
	Maximum operating level above sea level	2,000 m (without derating)					
	Fire protection	According EN 62109-1/ -2					
Noise emissions (1,5 m)	51 dBA (fan off) / 58 dBA (fan on)						
Configuration	Display	LC graphics display with backlighting and status LED					
	Circuit type	Two-stage, transformerless					
	DC disconnecter	Integrated					
	Data logger	Data logger for 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					
	Casing	Aluminium					
	Overvoltage conductor DC	Requirement class C (VDE 0675-6) and/or type 2 (EN 61643-11)					
Overvoltage conductor 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 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3					
	Grid connection	VDE 0126-1-1 A1:2012 / VDE 0126-1-1:2013 / VDE-AR-N 4105 / BDEW MV directive CEI 0-21 / CEI 0-16 / RD 661 / RD 1699 / G83/2 / G59/3					
	Device safety	EN 62109-1/ -2					
Interfaces	Data communication	RS485 / Ethernet					
	Status signaling contact	M12 connector with relay as N/C contact / N/O contact					
	Connection ripple control signal receiver	With MaxRemote					
	Connection external grid monitoring	M12 Connector					
Weight & Dimensions	Weight	39 kg				42 kg	
	Dimensions (W x H x D)	550 mm x 750 mm x 200 mm					
Warranty	Standard warranty	5 years					
	Warranty extensions	To 10, 15, 20 or 25 years					

¹⁾ For AC rated power output.

²⁾ Certifications are not available for all models.

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

