

SolarMax SMT-Series

6SMT • 8SMT • 10SMT • 13SMT • 15SMT

The all-rounder for trade and industry



- Dual MPP tracker for optimum energy yield
- High efficiency
- Wide input voltage range
- Protection class IP65, suitable for outdoor use
- Compact size and high power-to-weight ratio
- Quick and easy installation with MaxLink APP
- WLAN interface
- Optional with LCD display
- APP & Monitoring Portal
- 5 year warranty (optional 10 year warranty)
- Service hotline

SolarMax SMT-Series

Technical specifications

		6SMT	8SMT	10SMT	13SMT	15SMT
Input values	MPP voltage range	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V
	MPP voltage range at nominal power	300 V ... 800 V	380 V ... 800 V	470 V ... 800 V	400 V ... 800 V	470 V ... 800 V
	Maximum DC voltage	1,000 V				
	Minimum DC voltage for startup	200 V				
	Minimum DC voltage for shutdown	160 V				
	Maximum DC current	22 A (2 x 11 A)			33 A (11 A + 22 A)	
	Maximum DC short circuit current	26 A (2 x 13 A)			39 A (13 A + 2 x 13 A)	
	Number of MPP trackers	2				
	Max. PV output per MPPT ¹⁾	MPPT1: 7,200 W / MPPT2: 7,200 W			MPPT1: 7,200 W / MPPT2: 14,400 W	
	Number of string connections	2 (1/1)			3 (1/2)	
Connection type	Amphenol H4 (type MC4)					
Output values	Rated output power	6,000 W	8,000 W	10,000 W	12,000 W	15,000 W
	Maximum output apparent power	6,600 VA	8,800 VA	11,000 VA	13,200 VA	16,500 VA
	Maximum AC current	3 x 10 A	3 x 13 A	3 x 16 A	3 x 19.7 A	3 x 22.7 A
	Mains nominal voltage	400 V (3 L + N + PE)				
	Mains voltage range	277 V ... 520 V				
	Mains frequency	50 Hz / 60 Hz				
	Mains frequency range	45 Hz ... 55 Hz / 55 Hz ... 65 Hz				
	Power factor cos (φ)	Adjustable from 0.8 overexcited to 0.8 underexcited				
	Distortion factor at rated output power	< 3 %				
	Power input at night	< 1 W				
	Connection type	Connector				
Efficiency	Maximum efficiency	97.9 %	98.0 %	98.0 %	98.1 %	98.1 %
	Euro efficiency	97.3 %	97.4 %	97.5 %	97.6 %	97.6 %
Ambient conditions	Protection class	IP65				
	Ambient temperature range	- 25 °C ... + 60 °C (Nominal power up to + 45 °C)				
	Relative humidity	0 % ... 100 % (not condensing)				
	Cooling	Air cooling				
	Maximum operating height above sea level	2,000 m (without derating) / 4,000 m max				
Audible noise emissions	< 30 dB(A) @ 1 m					
Configuration	Display	App over WLAN connection + LED, optional with LCD display				
	Inverter topology	Transformerless				
	DC disconnect	Integrated				
	DC polarity inversion protection	Integrated				
	Residual Current Monitoring Unit (RCMU)	Integrated				
	Grid protection interface	Integrated				
	Protection class (IEC 62109-1)	I				
Overvoltage category (IEC 62109-1)	AC: III / DC: II					
Standard and guidelines	EMV	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
	Grid connection	EN50549-1, VDE-AR-N 4105, IEC 61727, IEC 62116, VDE 0126-1-1, CEI 0-21				
	Device safety	IEC 62109-1, IEC 62109-2				
Interfaces	Data communication	WLAN, RS485 (optional: GPRS)				
Weight and dimensions	Weight	19.8 kg			21.8 kg	
	Dimensions (W x H x D)	400 mm x 500 mm x 190 mm				
Warranty	Standard warranty	5 years / optional 10 years				

¹⁾ Higher connected load permissible, but cannot be used by the inverter.

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