

# 6-15SMT

The versatile inverter for trade and industry



Perfect for repowering  
2 MPP Tracker



Wide input voltage range  
Variable system planning



Suitable for outdoor use  
Protection against dust and water jets



WLAN Quick install  
via MaxLink App



Monitoring Portal  
and Service Hotline



Compact dimensions  
Low weight

## Technical specifications

	6SMT	8SMT	10SMT	13SMT	15SMT
<b>Input values</b>					
MPPT voltage range	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V	160 V ... 950 V
MPPT 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	26 A (2 x 13 A)		39 A (13 A + 26 A)		
Maximum DC short circuit current	30 A (2 x 15 A)		45 A (15 A + 30 A)		
Number of MPP trackers	2				
Maximum PV output per MPPT <sup>1</sup>	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)				
<b>Output values</b>					
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				
<b>Efficiency</b>					
Maximum efficiency	97.9 %	98.0 %	98.0 %	98.1 %	98.1 %
Euro efficiency	97.3 %	97.4 %	97.5 %	97.6 %	97.6 %
<b>Ambient conditions</b>					
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 maximum				
Audible noise emissions	< 30 dB(A) @ 1 m				
<b>Equipment</b>					
Display	App over WLAN connection + LED				
Inverter topology	Transformerless				
DC disconnecter	Integrated				
DC polarity inversion protection	Integrated				
Protection class (IEC 62109-1)	I				
Overvoltage (IEC 62109-1)	AC: III / DC: II				
<b>Standard &amp; guidelines</b>					
EMV	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				
Grid connection	EN50549-1, VDE-AR-N 4105, IEC61727, IEC62116, VDE 0126-1-1, CEI 0-21				
Device safety	IEC62109-1, IEC62109-2				
<b>Interfaces</b>					
Data communication	WLAN, RS485 (optional: GPRS)				
<b>Weight &amp; dimensions</b>					
Weight	19,8 kg		21,8 kg		
Dimensions (W x H x D)	400 mm x 500 mm x 190 mm				
<b>Warranty</b>					
Standard warranty	5 years / optional 10 years				



The quality management system of SOLARMAX GmbH is certified according to ISO 9001. The environmental management system is certified according to ISO 14001.

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

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Until  
**10 YEARS**  
Warranty