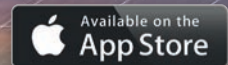


SolarMax SHT-S Series

50SHT-S • 60SHT-S • 1 MPP trackers

The perfect three-phase inverter for large commercial and ground mounted plants and for the repowering of central inverters



- Single MPP tracker operation
- Perfect for repowering central inverters
- Direct connection of generator junction boxes possible
- 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
- APP & Monitoring Portal
- 5 year warranty (optional 10 year warranty)
- Service-hotline

SolarMax SHT-S Series

Technical specifications

		50SHT-S	60SHT-S
Input values	MPP voltage range	200 V ... 960 V	
	MPP voltage range at nominal power	540 V ... 800 V	
	Maximum DC voltage	1,100 V	
	Minimum DC voltage for startup	250 V	
	Minimum DC voltage for shutdown	200 V	
	Maximum DC current	110 A	132 A
	Maximum DC short circuit current	140 A	168 A
	Number of MPP trackers	1	
	Maximum PV output	75,000 W	90,000 W
	Number of string connections	2	2
Connection type DC	Connection terminal 4 x 70 mm ²		
Output values	Rated output power	50,000 W	60,000 W ¹⁾
	Maximum output apparent power	55,000 VA	66,000 VA ¹⁾
	Maximum AC current	3* 83 A	3* 92 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 0.8 Leading - 0.8 Lagging	
	Distortion factor at rated output power	< 3 %	
	Power input at night	< 1 W	
	Connection type	Connector	
	Efficiency	Maximum efficiency	98.2 %
Euro efficiency		98.0 %	
Ambient conditions	Protection class	IP65	
	Ambient temperature range	- 25 °C ... + 60 °C	
	Relative humidity	0 % ... 100 % (not condensing)	
	Cooling	Fan cooling	
	Maximum operating height above sea level	4,000 m (> 2,000m derating)	
Audible noise emissions	< 65 dB (Measured at 1 m)		
Configuration	Display	Wireless & APP + LED	
	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	
	AC/DC surge arrester	Type 2 / -	
Standard and guidelines	EMC	EN 61000-6-2, EN 61000-6-4	
	Grid connection	EN50549-1, EN50549-2, VDE-AR-N 4110, 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	WiFi, RS485	
Weight and dimensions	Weight	81 kg	83 kg
	Dimensions (W x H x D)	855 mm x 710 mm x 285 mm	
Warranty	Standard warranty	5 years / 10 years (optional)	

¹⁾ With VDE 4110 the rated power of the 60SHT-S is 57,500 W and the maximum apparent power 63,250 VA. Preliminary datasheet.

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