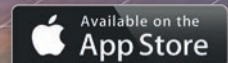


# SolarMax SHT-Series

50SHT • 60SHT • 4 MPP trackers

The perfect three-phase inverter for large commercial and ground mounted plants



- String fuses integrated
- Quad 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
- APP & Monitoring Portal
- 5 year warranty (optional 10 year warranty)
- Service-hotline

# SolarMax SHT-Series

## Technical specifications

		50SHT	60SHT	
<b>Input values</b>	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 (33 A / 33 A / 22 A / 22 A)	132 A (33 A / 33 A / 33 A / 33 A)	
	Maximum DC short circuit current	140 A (42 A / 42 A / 28 A / 28 A)	168 A (42 A / 42 A / 42 A / 42 A)	
	Number of MPP trackers	4		
	Maximum PV output per MPPT	MPPT 1 & 2: 22,500 W / MPPT 3 & 4: 15,000 W		MPPT 1 & 4: 22,500 W
	Number of string connections	10 (3/3/2/2)		12 (3/3/3/3)
Connection type	Amphenol H4 (type MC4)			
<b>Output values</b>	Rated output power	50,000 W	60,000 W <sup>1)</sup>	
	Maximum output apparent power	55,000 VA	66,000 VA <sup>1)</sup>	
	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		
<b>Efficiency</b>	Maximum efficiency	98.2 %		
	Euro efficiency	98.0 %		
<b>Ambient conditions</b>	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)			
<b>Configuration</b>	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 / Type 1 + 2		
<b>Standard and guidelines</b>	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		
<b>Interfaces</b>	Data communication	WiFi, RS485		
<b>Weight and dimensions</b>	Weight	81 kg	83 kg	
	Dimensions (W x H x D)	855 mm x 710 mm x 285 mm		
<b>Warranty</b>	Standard warranty	5 years / 10 years (optional)		

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

All rights, amendments and errors reserved.

