

17-30SHT

The perfect three-phase inverter for medium-sized and large commercial and industrial plants



Integrated string fuses
with 3 strings in parallel



WLAN Quick install
via MaxLink App



Wide input voltage range
Variable system planning



Monitoring Portal
and Service Hotline



Suitable for outdoor use
Protection against dust and water jets



Compact dimensions
Low weight

Technical specifications

	17SHT	20SHT	22SHT	25SHT	28SHT	30SHT
Input values						
MPPT voltage range	180 V ... 950 V	180 V ... 950 V	180 V ... 950 V	180 V ... 950 V	180 V ... 950 V	180 V ... 950 V
MPPT voltage range at nominal power	480 V ... 800 V	480 V ... 800 V	480 V ... 800 V	480 V ... 800 V	480 V ... 800 V	480 V ... 800 V
Maximum DC voltage	1,000 V					
Minimum DC voltage for startup	250 V					
Minimum DC voltage for shutdown	180 V					
Maximum DC current	54 A (2 × 27 A)			81 A (2 × 40.5 A)		
Maximum DC short circuit current	60 A (2 × 30 A)			90 A (2 × 45 A)		
Number of MPP trackers	2					
Maximum PV output per MPPT ¹	MPPT1: 18,000 W / MPPT2: 18,000 W			MPPT1: 22,500 W / MPPT2: 22,500 W		
Number of string connections	4 (2/2)			6 (3/3)		
Connection type	Amphenol H4 (type MC4)					
Output values						
Rated output power	17,000 W	20,000 W	22,000 W	25,000 W	28,000 W	30,000 W
Maximum apparent power	18,700 VA	22,000 VA	24,200 VA	27,500 VA	30,800 VA	33,000 VA
Maximum AC current	3 × 28 A	3 × 33.5 A	3 × 35 A	3 × 40 A	3 × 45 A	3 × 48 A
Mains nominal voltage	400 V (3 L + N + PE)					
Mains voltage range	277 V ... 520 V (adjustable)					
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	98.2 %	98.2 %	98.2 %	98.2 %	98.2 %	98.2 %
Euro efficiency	97.7 %	97.7 %	97.7 %	97.7 %	97.7 %	97.7 %
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			With fan		
Maximum operating height above sea level	2,000 m (without derating) / 4,000 m maximum					
Audible noise emissions	< 30 dB(A) @ 1 m			< 50 dB(A) @ 1 m		
Equipment						
Display	App over WLAN connection + LED					
Inverter topology	Transformerless					
DC disconnecter	Integrated					
DC polarity inversion protection	Integrated					
Protection class (IEC 62109-1)	I					
Overvoltage category (IEC 62109-1)	AC: III / DC: II					
AC/DC surge arrester	Type 2 / Type 2					
Standard & guidelines						
EMV	EN61000-6-2, EN61000-6-4					
Grid connection	EN50549-1, EN50549-2, VDE-AR-N 4105, VDE-AR-N 4110 ² , IEC61727, IEC62116, VDE 0126-1-1, CEI 0-21					
Device safety	IEC62109-1, IEC62109-2					
Interfaces						
Data communication	WLAN, RS485 (optional: GPRS)					
Weight & dimensions						
Weight	37 kg			40 kg		
Dimensions (W × H × D)	555 mm × 446 mm × 270 mm					
Warranty						
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 not usable by the inverter.
- 2) Only for 25SHT, 28SHT & 30SHT.

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and start directly!



Until
10 YEARS
Warranty