

Specifications

SWISS QUALITY



		SolarMax 50TS	SolarMax 80TS	SolarMax 100TS	SolarMax 300TS
Input values	Maximum PV generator output power	66 kW	105 kW	130 kW	400 kW
	MPP voltage range	430 V...800 V			
	Maximum DC voltage	900 V			
	Maximum DC current	120 A	180 A	225 A	720 A
	Number of MPP-Trackers	1	1	1	1 or 3
	Connection type	6 x screw terminals 150 mm ²			6 x screw terminals 150 mm ² threaded bolts M8
Output values	Rated output power ¹⁾	50 kW	80 kW	100 kW	300 kW
	Maximum apparent output power	55 kVA	88 kVA	110 kVA	330 kVA
	Nominal mains voltage	3 x 400 V			
	Maximum AC current	77 A	122 A	153 A	460 A
	Mains nominal frequency / range	50 Hz / 45 Hz...55 Hz			
	Power factor (cos phi)	Adjustable from 0.80 inductive to 0.80 capacitive			
	Distortion factor at rated power	< 3 %			
	Connection type	5 x screw terminals 95 mm ²			threaded bolts M8
	Grid connection	Three-phase (without a neutral conductor)			
Efficiency	Maximum efficiency	96.3 %			
	Europ. efficiency	95.5 %			95.7 % ³⁾
Power input	Own consumption, night	4 W			
Ambient conditions	Protection type compliant with EN 60529	IP20			
	Ambient temperature range	-20 °C...+50 °C			
	Ambient temperature range at rated power	-20 °C...+45 °C			
	Relative humidity	0...98% (no condensation)			
	Noise emission	< 65 dBA			
Configuration	Display	Graphic LC display with backlight and status LED			
	Data logger	Data logger for energy yield, peak output and operating duration for the last 31 days, 12 months and 10 years			
	Galvanic isolation	LF transformer			
Standards & guidelines	CE-compliant	Yes			
	EMC	EN 61000-6-2 / EN 61000-6-4			
	Standard / guideline compliance	VDE 0126-1-1 / DK 5940 Ed. 2.2 / RD 661 / G59/2 / BDEW MV Guideline ²⁾			
	Device safety	TÜV "Type approved" compliant with EN 50178			
Interfaces	Data communication	RS485 / Ethernet via two RJ45 sockets			
	Status signalling contact	Potential-free terminal contact pair (configurable function)			
	Alarm input	Terminal contact pair for connection to MaxConnect plus			
	Inverter shut-off 1	Two terminal contact pairs (can be chain-linked via several SolarMax TS)			
	Inverter shut-off 2				
Weight & dimensions	Weight	670 kg	800 kg	840 kg	2600 kg
	Dimensions in mm (W x H x D)	1000 x 1410 x 760			2 x (1200 x 1970 x 800)
Warranty		Standard 2 years / extension to 10, 15, 20 or 25 years possible			

¹⁾ at cos phi = 1, U_{AC} = 400 V

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²⁾ 300TS: in development

³⁾ in single MPPT operation with partial load optimisation

Efficiency SolarMax 300TS³⁾

