

Specifications

SWISS QUALITY



	SolarMax 8MT2	SolarMax 10MT2	SolarMax 13MT2	SolarMax 15MT2	SolarMax 13MT3	SolarMax 15MT3	
Input values	MPP voltage range	250 ... 750 V	250 ... 750 V	250 ... 750 V	250 ... 750 V	250 ... 750 V	
	Minimum voltage for rated power	300 V	290 V	370 V	430 V	280 V	
	Maximum DC voltage	900 V	900 V	900 V	900 V	900 V	
	Maximum DC current	1 x 18 A / 1 x 9 A	2 x 18 A	2 x 18 A	2 x 18 A	3 x 16 A	
	Number of MPP-Trackers	2	2	2	2	3	
	Max. PV generator output per MPP tracker	MPPT1: 9'000 W MPPT2: 4'500 W	9'000 W	9'000 W	9'000 W	9'000 W	
	String connections	1 x 2 / 1 x 1	2 x 2	2 x 2	2 x 2	3 x 2	
	Connection type	MC 4	MC 4	MC 4	MC 4	MC 4	
Output values	Rated output power at $\cos(\phi) = 1$	8'000 W	10'000 W	13'000 W	15'000 W	13'000 W	
	Maximum apparent output power	8'000 VA	10'000 VA	13'000 VA	15'000 VA	13'000 VA	
	Nominal mains voltage	3 x 400 V	3 x 400 V	3 x 400 V	3 x 400 V	3 x 400 V	
	Maximum AC current	3 x 12 A	3 x 16 A	3 x 20 A	3 x 22 A	3 x 20 A	
	Mains nominal frequency / range	50 Hz / 45 Hz...55 Hz					
	Power factor $\cos(\phi)$	Adjustable from 0.8 overexcited to 0.8 underexcited					
	Distortion factor at rated power	< 3 %					
	Connection type	Amphenol					
	Grid connection	Three-phase (3 / N / PE)					
Efficiency	Max. efficiency	98.0 %					
	Europ. efficiency	97.5 %					
Power input	Own consumption (night)	0 W					
Ambient conditions	Protection type compliant with EN 60529	IP65					
	Ambient temperature range	-20 °C...+60 °C					
	Ambient temperature range at rated power	-20 °C...+50 °C					
	Relative humidity	0...98% (no condensation)					
Configuration	Display	Graphic LC display with backlight and status LED					
	Circuit type	two-stage, transformerless (no galvanic isolation)					
	Data logger	Data logger for energy yield, peak output and operating duration for the last 31 days, 12 months and 10 years					
	Fault current monitoring	Internal, AC/DC sensitive					
	Casing	Aluminium, cover powder-coated					
	Overvoltage conductor DC	Requirement class C (VDE 0675-6) or type 2 (EN 61643-11)					
	Overvoltage conductor AC	Requirement class D (VDE 0675-6) or type 3 (EN 61643-11)					
Standards & guidelines	CE-compliant	Yes					
	EMC	EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3					
	Standard / guideline compliance	VDE-AR-N 4105 / VDE 0126-1-1 / BDEW MV Guideline ¹⁾ / CEI 0-21 ²⁾ / Allegato A70 ³⁾ / ENEL Guida Connessioni Ed. 2.2 / RD 661 / RD 1699 / G59/2 / G83/2 ³⁾ / PPC Guide / C10/11 / EN 50438 ⁴⁾ / AS 4777 / CQC Golden Sun					
	Device safety	"GS certified safety" VDE with EN 50178 / IEC 62109-1 AS 3100					
Interfaces	Data communication	RS485 / Ethernet via two RJ45 sockets					
	Status signalling contact	M12 connector with relay as N/C contact / N/O contact					
Weight & dimensions	Weight	39 kg	39 kg	39 kg	39 kg	42 kg	
	Dimensions in mm (W x H x D)	550 x 750 x 200					
Warranty		Standard 5 years / extension to 10, 15, 20 or 25 years possible					

¹⁾ Not designed for SolarMax 8MT2

²⁾ available as of July 2012

³⁾ Only the inverters SolarMax 8MT2 and SolarMax 10MT2 (in development)

⁴⁾ Portugal

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SolarMax 15MT3 efficiency curve

