

	SolarMax 2000S	SolarMax 3000S	SolarMax 4200S	SolarMax 6000S
Input values				
MPP voltage range	100 V...550 V	100 V...550 V	100 V...550 V	100 V...550 V
Minimum voltage for rated power	190 V	260 V	200 V	240 V
Maximum DC voltage	600 V	600 V	600 V	600 V
Maximum DC current	11 A	11 A	22 A	22 A
Connection type	MC4	MC4	MC4	MC4
Output values				
Rated output power at $\cos(\varphi) = 1$	1'980 W	2'750 W	4'180 W	5'060 W
Maximum apparent output power	1'980 VA	2'750 VA	4'180 VA	5'060 VA
Nominal mains voltage / range	230 V / 184 V...300 V	230 V / 184 V...300 V	230 V / 184 V...300 V	230 V / 184 V...300 V
Maximum AC current	12 A	12 A	19 A	22 A
Mains nominal frequency / range	50 Hz / 45 Hz...55 Hz			
Power factor $\cos(\varphi)$	Adjustable from 0.8 overexcited to 0.8 underexcited			
Distortion factor at rated power	< 1.5 %			
Connection type	Wieland			
Grid connection	One-phase (1 / N / PE)			
Efficiency				
Max. efficiency	97 %	97 %	97 %	97 %
Europ. efficiency	95.4 %	95.5 %	95.8 %	96.2 %
Power input				
Own consumption (night)	0 W			
Ambient conditions				
Protection type compliant with EN 60529	IP54			
Ambient temperature range	-20 °C...+60 °C			
Ambient temperature range at rated power	-20 °C...+45 °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 D (VDE 0675-6) or type 3 (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 61000-6-2 / EN 61000-6-3 / EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12			
Standard/guideline compliance	VDE-AR-N 4105 / VDE 0126-1-1 / CEI 0-21 ¹⁾ / DK 5940 Ed. 2.2 / RD 661 / RD 1699 / G83/1-1 / G83/2 ²⁾ / G59/2 ³⁾ / PPC Guide / C10/11 / EN 50438 ⁴⁾ / AS4777			
Device safety	"Type approved" TÜV Rheinland, "GS certified safety" VDE AS3100			
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	13 kg	13 kg	15 kg	15 kg
Dimensions in mm (W x H x D)	545 x 290 x 185	545 x 290 x 185	545 x 290 x 185	545 x 290 x 185
Warranty				
Warranty	Standard 5 years / extension to 10, 15, 20 or 25 years possible			

¹⁾ available as of July 2012

²⁾ in development

³⁾ Only the inverters SolarMax 4200S and SolarMax 6000S

⁴⁾ Portugal

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