

Specifications

SWISS QUALITY



		SolarMax 20C	SolarMax 25C	SolarMax 30C	SolarMax 35C
Input values	Maximum PV generator output power ¹⁾	24 kW	33 kW	40 kW	45 kW
	MPP voltage range	430...800 V			
	Maximum DC voltage	900 V			
	Maximum DC current	48 A	63 A	75 A	78 A
	Number of MPP-Trackers	1	1	1	1
	Connection type	3 x screw terminals 35 mm ²			
Output values	Rated output power	20 kW	25 kW	30 kW	35 kW
	Maximum apparent output power	22 kW	27.5 kW	33 kW	38.5 kW
	Nominal mains voltage	3 x 400 V			
	Maximum AC current	31 A	38 A	46 A	54 A
	Mains nominal frequency / range	50 Hz / 45...55 Hz			
	Power factor (cos phi)	> 0.98			
	Distortion factor at rated power	< 3 %			
	Connection type	6 x screw terminals 35 mm ²			
	Grid connection	Three-phase (with neutral conductor)			
	Efficiency	Maximum efficiency	96 %		
Europ. efficiency		94.8 %			
Power input	Own consumption, night	2...7 W			
Ambient conditions	Protection type compliant with EN 60529	IP20			
	Ambient temperature range at rated power	-20 °C ... + 40 °C			
	Relative humidity	0...98 % (no condensation)			
Configuration	Display	Two-Line, 16 Character LCD (Backlighting)			
	Data logger	Energy yield of the most recent day, month and year / Total operating hours			
	Galvanic isolation	LF transformer			
Standards & guidelines	CE-compliant	Yes			
	EMC	EN 61000-6-2 / EN 61000-6-4			
	Standard / guideline compliance	DK 5940 / RD 661			
	Device safety	TÜV "Type approved" compliant with EN 50178			
Interfaces	Data communication	RS232 / RS485			
	Fault alarm contact	Potential-free terminal contact pair			
	Alarm input	1 Terminal contact pair for connection to MaxConnect plus / 1 terminal contact pair for connection to an external voltage source (5...12 Vdc)			
Weight & dimensions	Weight	275 kg	275 kg	370 kg	370 kg
	Dimensions in mm (W x H x D)	570 x 1170 x 570			
Warranty		Standard 2 years / extension to 5, 10 or 12 years possible			

¹⁾ Recommended overdimensioning 15 % (ISE Fraunhofer study)

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Efficiency SolarMax C series

