

# Specifications

**SWISS QUALITY**



		SolarMax 20S	SolarMax 35S	
<b>Input values</b>	Maximum PV generator output power <sup>1)</sup>	24 kW	45 kW	
	MPP voltage range	400...800 V		
	Maximum DC voltage	900 V		
	Maximum DC current	48 A	78 A	
	Number of MPP-Trackers	1	1	
	Connection type	7 x MC4 connectors with integrated 10 A fuses	14 x MC4 connectors with integrated 10 A fuses	
		3 screw terminals 35 mm <sup>2</sup> , bushing 3 x M20 for cable diameter 6-15 mm		
<b>Output values</b>	Rated output power	20 kW	35 kW	
	Maximum apparent output power	22 kW	38.5 kW	
	Nominal mains voltage	3 x 400 V		
	Maximum AC current	31 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	5 screw terminals 35 mm <sup>2</sup> , bushing 3 x M20 for cable diameter 20-33 mm		
	Grid connection	Three-phase (with neutral conductor)		
<b>Efficiency</b>	Maximum efficiency	96.6 %	96.8 %	
	Europ. efficiency	95.5 % @ 600 V <sub>DC</sub>	95.5 % @ 600 V <sub>DC</sub>	
		96.0 % @ 700 V <sub>DC</sub>	96.1 % @ 700 V <sub>DC</sub>	
<b>Power input</b>	Own consumption, night	2...7 W		
<b>Ambient conditions</b>	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)		
<b>Configuration</b>	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		
<b>Standards &amp; guidelines</b>	CE-compliant	Yes		
	EMC	EN 61000-6-2 / EN 61000-6-3		
	Standard / guideline compliance	VDE 0126-1-1 / DK 5940 / RD 661		
	Device safety	TÜV "Type approved" compliant with EN 50178		
<b>Interfaces</b>	Data communication	RS485 / Ethernet		
	Status signalling contact	Potential-free terminal contact pair (Configurable function)		
<b>Weight &amp; dimensions</b>	Weight	98 kg	125 kg	
	Dimensions in mm (W x H x D)	655 x 1090 x 455		
<b>Warranty</b>		Standard 2 years / extension to 5, 10 or 12 years possible		

<sup>1)</sup> Recommended overdimensioning 15 % (ISE Fraunhofer study)

All rights, amendments and errors reserved.

## Efficiency SolarMax S series

