

Technical Data Grid-Connected Inverter SOLPLUS

Type	SOLPLUS 25	SOLPLUS 35	SOLPLUS 50	SOLPLUS 55
Inverter technology	without transformer, one feed-in phase, controlled active cooling fan			
Allowed ambient temperature	-15°C to +50°C			
Storage temperature	-20°C to +70°C			
Allowed rel. humidity	Max. 90 %, condensation not allowed			
Protection grade	IP21 and IP54			
Weight	~ 19 kg	~ 19 kg	20 kg	20 kg
Stand-by power	~ 8 W			
Dimensions (h x w x d)	450 x 303 x 130 mm			
Standard warranty period	5 years			
Noise	~ 35 dB			

Connection of PV-generator

PV-voltage range	~ 330 bis 750 V (MPP-Range), max. 850 V			
Max. DC-current	7,9 A	11,1 A	15,7 A	17,0 A
Suggested solar generation power	1500 to 3000 Wp	3000 to 4200 Wp	4200 to 6000 Wp	5200 to 6000 Wp
MPP-control	Fast and direct MPP-control			
AC-energy generated from	~ 8 W			
DC-connection	max. 3 Strings, optional via plug, MC-old/new, Tyco			

Connection of Mains

AC-voltage	230V AC +/- 15 %			
Nominal AC-power	2500 W	3500 W	4600 W	5500 W
Maximum AC-power	Max. 2800 W	Max. 4000 W	Max. 5000 W	Max. 5700 W
Maximum AC-current	10,9 A	15,3 A	21,7 A	24,0 A
Nominal frequency	50 Hz, +/- 1 %			
Max. efficiency	97,2 %	97,3 %	97,4 %	97,4 %
European efficiency	96,6 %	96,8 %	97,0 %	97,0%
Night-time consumption	0,01 W			
Behaviour of overload	Power-limitation			

Security

Grid-monitoring, Anti-islanding	ENS according to VDE 0126			
Monitoring of earth-connection	By measuring of the isolation-resistance of the PV-generator			
Fault-current	DC and AC-sensitive fault-current protection			
Overvoltage-protection	According to VDE0110 part 1, protected with varistors			

Display

LCD-Display: 4 lines x 20 characters (backlighted), Menu-handling with 5 keys, two-coloured LED for Status

Data Communication

RS232, RS485	Standard, 9-pin SubD-connector and 3-pin screw-terminal			
Ethernet	Integrated Ethernet-interface, Web-Server			
Options	Wireless control, Modem for remote control and others in progress (2005)			
Serial protocol	ASCII-protocol for all values, Multi-Master-protocol			
Others	Free usable digital and analogue connections			

Data logger

Datalogger with individual programmable values, Logger for year-energy

Others

Integrated sensor-connection for temperature of module and others, PV-irradiation and more

Night-control with wall-plug-adaptor, Software-update without opening the cabinet, energy-controller with puls-output directly connectable

Standards

CE-conform, VDEW-conform, DIN VDE 0126