

Datasheet SOLPLUS 300

Input, electrical data	
Nominal DC power	33 kW
recommended max. PV generator output	34,5 kW
MPP range DC	200-700 V
Max. DC voltage	850 V
Min. voltage Pnom	DC-Module
Nominal output current	DC-Module
Max. DC current	DC-Module
Number of MPP trackers	max. 13
Output electrical data	
Nominal AC power	30 kW
Max. AC output power	33 kW
Nominal AC voltage	3x230V/300V
Nominal current/max. AC current	43,5 A
Inverter, electrical data	
Number of supply phases	3
Frequency AC 50 Hz	yes
Frequency AC 60 Hz	on demand
Output voltage range	3x184-265V
Cos-Phi	
Power factor	1
Kind of electricity	Sinus
Nonliner distortion factor	<4%
AC-energy generated from	30 W
Stand-by consumption	<30 W
Night-time consumption	<15 W
Max. efficiency	96,5 %
Euro ETA	96,0 %
Inverter, mechanical and technical data	
Concept	transformer less, modular, multitracking
Protection grade	IP 54
Appliance class	SKL I
ENS	3-phase controlling
AFI /insulation monitoring	yes
Behaviour of overload	Power limitation
Internal DC switch	yes, 1 per DC module
Dimensions / weight	H x B x T: 1750 x 560 x 210 mm / 100-120 kg
Blower	available, temperature controlled
Noise level	<55 dbA
Ambient temperature	-20° C ... + 40° C
Max. temperature for Pnom	40° C
Display	4 lines a 20 signs, background lighting
Interfaces	RS 232, RS 485, Ethernet
GSM-, analog modem, radio data transmission	optional
System control	yes
Guarantee	6 years
Certificates, CE, mark of conformity VDEW-conform	

Solplus-DC-module	SP-DCM 25-6A	SP-DCM 40-8,5A	SP-DCM 50-10,5A	SP-DCMTF 27-9,5 A
Input, electrical data				
See above				
Nominal DC power	2,75 kW	4,0 kW	5,0 kW	2,7 kW
Max. PV generator output	3,3 kW	5,5 kW	6,0 kW	3,3 kW
MPP range DC	200-700 V	200-700 V	200-700 V	200-700 V
Max. DC-Voltage	850 V	850 V	850 V	850 V
Min. voltage Pnom	500 V	500 V	575 V	375 V
Nominal output current	5,5 A	8,0 A	10,0 A	9,0 A
Max. DC current	6,0 A	8,5 A	10,5 A	9,5 A
Number of DC inputs	recommended:1	recommended:1	recommended:1	recommended:1
Number of MPP tracker	1	1	1	1
Output, electrical data				
Nominal AC power	2,75 kW	4,0 kW	5,0 kW	2,7 kW
Max. PV generator output	3,0 kW	4,5 kW	5,5 kW	3,0 kW
Supply from	5 W	5 W	5 W	5 W
topology	transformer less, HSS, IGBT			

DCMTF 27 shows the best suitability thin film Modules.