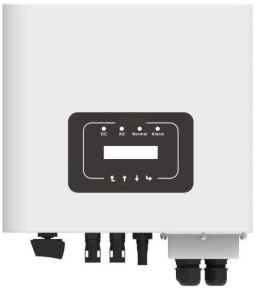
INVERTERS

SUN-3.6-6.2K-G05P1-EU-CM2

String inverter · Single-phase · 3.6 – 6.2 kW · 8 models



3.6 – 6.2 kW	Single-phase	2	97.3 – 97.5 %
RATED POWER	PHASE	MPPT TRACKERS	MAX. EFFICIENCY

Parameter	Unit	SUN-3.6K-G05P1-EU-CM2	SUN-4K-G05P1-EU-CM2	SUN-4.2K-G05P1-EU-CM2	SUN-4.6K-G05P1-EU-CM2	SUN-5K-G05P1-EU-CM2	SUN-5.2K-G05P1-EU-CM2	SUN-6K-G05P1-EU-CM2	SUN-6.2K-G05P1-EU-CM2
PV input									
Max. PV input power	W	5400	6000	6300	6900	7500	7800	9000	9300
Max. PV input voltage	V	550							
Start-up voltage	V	80							
MPPT voltage range	V	70 – 500							
Rated PV input voltage	V	360							
Max. input current per MPPT	A	18							
Max. short-circuit current per MPPT	A	27							
Number of MPPT trackers		2							
PV strings per MPPT		1							
AC output									
Rated output power	W	3600	4000	4200	4600	5000	5200	6000	6200
Max. apparent power	VA	3960	4400	4620	5060	5500	5720	6600	6820
Rated AC voltage	V	230							
Nominal AC voltage options	V	220 / 230							
AC voltage range (relative to rated voltage)		0.85-1.1 Un							
Rated AC output current	A	15.7	17.4	18.3	20	21.8	22.7	26.1	27
Phase		Single-phase							
Rated AC frequency	Hz	50/60							
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65							
Max. AC output current	A	17.3	19.2	20.1	22	24	24.9	28.7	29.7
Power factor		0.8 leading to 0.8 lagging (adjustable)							

Parameter	Unit	SUN-3.6K-G05P1-EU-CM2	SUN-4K-G05P1-EU-CM2	SUN-4.2K-G05P1-EU-CM2	SUN-4.6K-G05P1-EU-CM2	SUN-5K-G05P1-EU-CM2	SUN-5.2K-G05P1-EU-CM2	SUN-6K-G05P1-EU-CM2	SUN-6.2K-G05P1-EU-CM2
Total harmonic distortion (THDi)	%	<3							
DC injection current (% of rated current)	%	<0.5							
AC grid connection type		L/N/PE							
Efficiency									
Max. efficiency	%	97.3	97.5						
European efficiency	%	96.9	97						
MPPT efficiency	%	>99							
Protection									
Protection functions		DC reverse polarity protection; AC output overcurrent protection; AC output overvoltage protection; AC output short-circuit protection; Thermal protection; Insulation impedance detection; DC component monitoring; Arc fault circuit interrupter (AFCI, optional); Anti-islanding protection; Residual current detection; Surge protection (DC Type II / AC Type II); DC switch							
Anti-PID function		Optional							
General data									
Dimensions (W x H x D)	mm	305 × 280 × 180							
Weight	kg	7.7							
Ingress protection (IP rating)		IP65							
Operating temperature range	°C	−25 – 60							
Power derating above	°C	45							
Relative humidity	%	0 – 100							
Max. operating altitude	m	3000							
Noise level	dB	≤35							
Topology		Non-isolated							
Cooling		Natural cooling							
Warranty	years	5							
Overvoltage category		OVC II (DC); OVC III (AC)							
Communication									
Display		LCD1602							
Communication interfaces		RS485; RS232; Wi-Fi; LAN							
String intelligent monitoring		Optional							
Certifications									
Certifications and standards		IEC/EN 61000-6-1/2/3/4; IEC/EN 62109-1; IEC/EN 62109-2							
Grid codes		IEC 61727; IEC 62116; CEI 0-21; EN 50549; NRS 097; RD 140; UNE 217002; G99; VDE-AR-N 4105							

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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