

INVERTERS

SUN-6-8K-G06P3-EU-BM2-LV-P1

String inverter · Three-phase · 6 – 8 kW · 2 models


6 – 8 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.3 %

MAX. EFFICIENCY

Parameter	Unit	SUN-6K-G06P3-EU-BM2-LV-P1	SUN-8K-G06P3-EU-BM2-LV-P1
PV input			
Max. PV input power	W	9000	12000
Max. PV input voltage	V	800	
Start-up voltage	V	250	
MPPT voltage range	V	200 – 700	
Rated PV input voltage	V	500	
Max. input current per MPPT	A	20	26
Max. short-circuit current per MPPT	A	30	39
Number of MPPT trackers		2	
PV strings per MPPT		1	2
Max. PV input current by MPPT tracker	A	20+20	20+26
Max. PV short-circuit current by MPPT tracker	A	30+30	30+39
PV strings by MPPT tracker		1+1	1+2
AC output			
Rated output power	W	6000	8000
Max. apparent power	VA	6000	8000
Rated AC voltage	V	230	
Rated AC voltage options (phase / line)	V	127/220; 133/230	
AC voltage range (relative to rated voltage)		0.85 Un-1.1 Un	
Rated AC output current	A	15.1	20.1
Max. AC output current	A	15.1	20.1
Phase		Three-phase	

Parameter	Unit	SUN-6K-G06P3-EU-BM2-LV-P1	SUN-8K-G06P3-EU-BM2-LV-P1
Rated AC frequency	Hz	50/60	
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65	
Power factor		0.8 leading to 0.8 lagging	
Total harmonic distortion (THDi)	%	<3	
Grid connection type		3L/N/PE	
DC injection current		<0.5% In	
Efficiency			
Max. efficiency	%	98.3	
European efficiency	%	97.8	98
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; DC switch	
Surge protection level		Type II (DC), Type II (AC)	
Anti-PID function		Optional	
General data			
Operating temperature range	°C	-25 - 60	
Relative humidity	%	0 - 100	
Max. operating altitude	m	4000	
Noise level	dB	<45	
Ingress protection (IP rating)		IP65	
Topology		Non-isolated	
Overvoltage category		OVC II (DC), OVC III (AC)	
Dimensions (W x H x D)	mm	283 × 525 × 178	283 × 525 × 188
Weight	kg	11.5	12
Warranty	years	5	
Cooling		Natural cooling	
Communication			
Display		LCD1602	
Communication interfaces		RS485; RS232; Wi-Fi; LAN	
Monitoring		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		NBR 16149; NBR 16150; EN 50549; RD 140	

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

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