

INVERTERS

SUN-3-15K-G06P3-EU-BM2-P1

String inverter · Three-phase · 3 – 15 kW · 10 models



3 – 15 kW
RATED POWER

Three-phase
PHASE

2
MPPT TRACKERS

98.1 – 98.5 %
MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	1100
Start-up voltage	V	140
MPPT voltage range	V	120 – 1000
Rated PV input voltage	V	600
Number of MPPT trackers		2
AC output		
Rated AC voltage	V	400
Nominal AC voltage options	V	220/380 or 230/400
AC voltage range (relative to rated voltage)		0.85-1.1 Un
Phase		Three-phase
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 (adjustable)
Total harmonic distortion (THDi)	%	<3
DC injection current (% of rated current)	%	<0.5
AC grid connection type		3L/N/PE
Efficiency		
MPPT efficiency	%	>99

Parameter	Unit	Common to all models
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		
Ingress protection (IP rating)		IP65
Operating temperature range	°C	-25 – 60
Power derating above	°C	45
Relative humidity	%	0 – 100
Max. operating altitude	m	4000
Noise level	dB	<45
Topology		Non-isolated
Cooling		Natural cooling
Warranty	years	5
Overvoltage category		OVC II (DC); OVC III (AC)
Communication		
Communication interfaces		RS485; RS232
Monitoring		GPRS / Wi-Fi / Bluetooth / 4G / LAN (optional)
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; OVE-Richtlinie R25; G98; G99; VDE-AR-N 4105

Parameter	Unit	SUN-3K-G06P3-EU-BM2-P1	SUN-4K-G06P3-EU-BM2-P1	SUN-5K-G06P3-EU-BM2-P1	SUN-6K-G06P3-EU-BM2-P1	SUN-7K-G06P3-EU-BM2-P1
PV input						
Max. PV input power	W	4500	6000	7500	9000	10500
Max. input current per MPPT	A	20				
Max. short-circuit current per MPPT	A	30				
PV strings per MPPT		1				
AC output						
Rated output power	W	3000	4000	5000	6000	7000
Max. apparent power	VA	3300	4400	5500	6600	7700
Rated AC output current	A	4.4	5.8	7.3	8.7	10.2
Max. AC output current	A	4.8	6.4	8	9.6	11.2

Parameter	Unit	SUN-3K-G06P3-EU-BM2-P1	SUN-4K-G06P3-EU-BM2-P1	SUN-5K-G06P3-EU-BM2-P1	SUN-6K-G06P3-EU-BM2-P1	SUN-7K-G06P3-EU-BM2-P1
Efficiency						
Max. efficiency	%	98.1		98.2		98.3
European efficiency	%	97.5		97.6		97.8
General data						
Dimensions (W x H x D)	mm	283 × 525 × 178				
Weight	kg	11.5				

Parameter	Unit	SUN-8K-G06P3-EU-BM2-P1	SUN-9K-G06P3-EU-BM2-P1	SUN-10K-G06P3-EU-BM2-P1	SUN-12K-G06P3-EU-BM2-P1	SUN-15K-G06P3-EU-BM2-P1
PV input						
Max. PV input power	W	12000	13500	15000	18000	22500
Max. input current per MPPT	A	20				26
Max. short-circuit current per MPPT	A	30				39
PV strings per MPPT		1				2
AC output						
Rated output power	W	8000	9000	10000	12000	15000
Max. apparent power	VA	8800	9900	11000	13200	16500
Rated AC output current	A	11.6	13.1	14.5	17.4	21.8
Max. AC output current	A	12.8	14.4	16	19.2	24
Efficiency						
Max. efficiency	%	98.3				98.5
European efficiency	%	97.8				98
General data						
Dimensions (W x H x D)	mm	283 × 525 × 178				283 × 525 × 188
Weight	kg	11.5				12

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

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