

INVERTERS

SUN-5-12K-SG02HP3-EU-DM2

Hybrid inverter · Three-phase · 5 – 12 kW · 5 models


5 – 12 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-5K-SG02HP3-EU-DM2	SUN-6K-SG02HP3-EU-DM2	SUN-8K-SG02HP3-EU-DM2	SUN-10K-SG02HP3-EU-DM2	SUN-12K-SG02HP3-EU-DM2
PV input						
Max. PV input power	W	10000	12000	16000	20000	24000
Max. usable PV input power	W	8000	9600	12800	16000	19200
Max. PV input voltage	V	1000				
Rated PV input voltage	V	600				
MPPT voltage range	V	150 – 850				
Start-up voltage	V	130				
Max. input current per MPPT	A	20				
Max. short-circuit current per MPPT	A	30				
Number of MPPT trackers		2				
PV strings per MPPT		1				
AC output						
Rated output power	W	5000	6000	8000	10000	12000
Max. apparent power	VA	5500	6600	8800	11000	13200
Rated AC voltage	V	400				
Rated AC output current	A	7.3	8.7	11.6	14.5	17.4
Max. AC output current	A	8	9.6	12.8	16	19.2
Phase		Three-phase				
Rated AC frequency	Hz	50/60				
Total harmonic distortion (THDi)	%	<3				
Power factor		0.8 leading to 0.8 lagging				
Peak (surge) power	W	7500	9000	12000	15000	18000
Generator input		Yes				
Max. parallel units		10				
Max. continuous AC pass-through current (grid to load)	A	35				
Grid connection type		3L+N+PE				
DC injection current		<0.5% In				
Unbalanced output capability	%	100				

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Battery						
Battery type		Lithium-ion				
Battery voltage range	V	130 – 700				
Max. charge current	A	37		55		
Max. discharge current	A	37		55		
Charging strategy for Li-ion battery		Self-adaption to BMS				
Number of battery inputs		1				
Efficiency						
Max. efficiency	%	97.6				
European efficiency	%	97				
MPPT efficiency	%	>99				
Protection						
Protection functions		DC reverse polarity protection; AC output overcurrent protection; Thermal protection; AC output overvoltage protection; AC output short circuit protection; DC component monitoring; Arc fault circuit interrupter (AFCI)(optional); Anti-islanding protection; DC switch; Insulation impedance detection; Residual current detection				
Surge protection level		Type II (DC), Type II (AC)				
General data						
Ingress protection (IP rating)		IP65				
Operating temperature range	°C	–40 – 60				
Relative humidity	%	0 – 100				
Max. operating altitude	m	2000				
Cooling		Natural cooling		Intelligent air cooling		
Noise level	dB	≤45				
Topology		Non-isolated				
Warranty	years	5 – 10				
Overvoltage category		OVC II (DC), OVC III (AC)				
Communication						
Display		LCD + LED				
Communication interfaces		RS485; RS232; CAN				
Monitoring		GPRS / Wi-Fi / Bluetooth / 4G / LAN (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; G99; VDE-AR-N 4105				

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

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