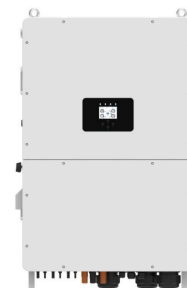


INVERTERS

SUN-100-125K-SG02HP3-EU-GM8-GM10

Hybrid inverter · Three-phase · 100 – 125 kW · 3 models


100 – 125 kW

RATED POWER

Three-phase

PHASE

8

MPPT TRACKERS

98.7 %

MAX. EFFICIENCY

Parameter	Unit	SUN-100K-SG02HP3-EU-GM8	SUN-100K-SG02HP3-EU-GM10	SUN-125K-SG02HP3-EU-GM10
PV input				
Max. PV input power	W	200000		250000
Max. usable PV input power	W	160000		200000
Max. PV input voltage	V	1000		
Rated PV input voltage	V	650		
MPPT voltage range	V	150 – 850		
Start-up voltage	V	180		
Max. input current per MPPT	A	42		
Max. short-circuit current per MPPT	A	63		
Number of MPPT trackers		8	10	
PV strings per MPPT		2		
AC output				
Rated output power	W	100000		125000
Max. apparent power	VA	110000		135000
Rated AC voltage	V	400		
Rated AC output current	A	145		181.2
Max. AC output current	A	159.5		195.7
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	150000		187500
Peak power duration (off-grid)	s	10		
Generator input		Yes		

Parameter	Unit	SUN-100K-SG02HP3-EU-GM8	SUN-100K-SG02HP3-EU-GM10	SUN-125K-SG02HP3-EU-GM10
Max. parallel units		10		
Max. continuous AC pass-through current (grid to load)	A	250		
Rated grid voltage options and range		220/380 V; 230/400 V; range 0.85 Un-1.1 Un		
Grid connection type		3L+N+PE		
Rated grid frequency and range		50 Hz (45-55 Hz); 60 Hz (55-65 Hz)		
DC injection current		<0.5% In		
Battery				
Battery type		Lithium-ion		
Battery voltage range	V	160 – 1000		
Max. charge current	A	200		
Max. discharge current	A	200		
Max. charge / discharge current per battery input	A	100		
Charging strategy for Li-ion battery		Self-adaption to BMS		
Number of battery inputs		2		
Efficiency				
Max. efficiency	%	98.7		
European efficiency	%	98.1		
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				
Dimensions (W x H x D)	mm	734 × 1091 × 344		
Weight	kg	161.7		
Ingress protection (IP rating)		IP65		
Operating temperature range	°C	−40 – 60		
Power derating starts above	°C	45		
Relative humidity	%	0 – 100		
Max. operating altitude	m	3000		
Noise level	dB	≤65		
Cooling		Intelligent air cooling		
Topology		Non-isolated		
Warranty	years	5 – 10		
Overvoltage category		OVC II (DC), OVC III (AC)		

Parameter	Unit	SUN-100K-SG02HP3-EU-GM8	SUN-100K-SG02HP3-EU-GM10	SUN-125K-SG02HP3-EU-GM10
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.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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