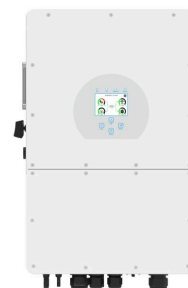


INVERTERS

SUN-5-25K-SG01HP3-EU-AM2

Hybrid inverter · Three-phase · 5 – 25 kW · 8 models


5 – 25 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-5K-SG01HP3-EU-AM2	SUN-6K-SG01HP3-EU-AM2	SUN-8K-SG01HP3-EU-AM2	SUN-10K-SG01HP3-EU-AM2	SUN-12K-SG01HP3-EU-AM2	SUN-15K-SG01HP3-EU-AM2	SUN-20K-SG01HP3-EU-AM2	SUN-25K-SG01HP3-EU-AM2
PV input									
Max. PV input power	W	10000	12000	16000	20000	24000	30000	40000	50000
Max. usable PV input power	W	8000	9600	12800	16000	19200	24000	32000	40000
Max. PV input voltage	V	1000							
Rated PV input voltage	V	600							700
MPPT voltage range	V	150 – 850							
Start-up voltage	V	180							
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				26+20		26+26	
Max. PV short-circuit current by MPPT tracker	A	30+30				39+30		39+39	
PV strings by MPPT tracker		1+1				2+1		2+2	
AC output									
Rated output power	W	5000	6000	8000	10000	12000	15000	20000	25000
Max. apparent power	VA	5500	6600	8800	11000	13200	16500	22000	27500
Rated AC voltage	V	400							
Rated AC output current	A	7.3	8.7	11.6	14.5	17.4	21.8	29	36.3
Max. AC output current	A	8	9.6	12.8	16	19.2	24	31.9	39.9
Phase		Three-phase							
Rated AC frequency	Hz	50/60							

Parameter	Unit	SUN-5K-SG01HP3-EU-AM2	SUN-6K-SG01HP3-EU-AM2	SUN-8K-SG01HP3-EU-AM2	SUN-10K-SG01HP3-EU-AM2	SUN-12K-SG01HP3-EU-AM2	SUN-15K-SG01HP3-EU-AM2	SUN-20K-SG01HP3-EU-AM2	SUN-25K-SG01HP3-EU-AM2
Total harmonic distortion (THDi)	%	<3							
Power factor		0.8 leading to 0.8 lagging							
Peak (surge) power	W	7500	9000	12000	15000	18000	22500	30000	37500
Peak power duration (off-grid)	s	10							
Rated AC voltage options	V	220/380; 230/400							
AC voltage range		0.85 Un-1.1 Un							
Grid connection type		3L+N+PE							
Grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65							
Max. continuous AC passthrough (grid to load)	A	80							
DC injection current		<0.5% In							
Generator input		Yes							
Max. parallel units		10							
Unbalanced output capability	%	100							
Battery									
Battery type		Lithium-ion							
Battery voltage range	V	160 – 700							
Max. charge current	A	30	37						50
Max. discharge current	A	30	37						50
Charging strategy for Li-ion battery		Self-adaption to BMS							
Number of battery inputs		1							
Time periods for battery charging/discharging		6							
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									
Dimensions (W x H x D)	mm	408 × 638 × 237							
Weight	kg	30.5							
Ingress protection (IP rating)		IP65							
Operating temperature range	°C	–40 – 60							
Relative humidity	%	0 – 100							

Parameter	Unit	SUN-5K-SG01HP3-EU-AM2	SUN-6K-SG01HP3-EU-AM2	SUN-8K-SG01HP3-EU-AM2	SUN-10K-SG01HP3-EU-AM2	SUN-12K-SG01HP3-EU-AM2	SUN-15K-SG01HP3-EU-AM2	SUN-20K-SG01HP3-EU-AM2	SUN-25K-SG01HP3-EU-AM2
Max. operating altitude	m	2000							
Cooling		Natural cooling		Intelligent air cooling					
Noise level	dB	≤55							
Topology		Non-isolated							
Overvoltage category		OVC II (DC), OVC III (AC)							
Warranty	years	5 – 10							
Communication									
Display		LCD							
Communication interfaces		Wi-Fi; RS485; CAN							
Monitoring		GPRS / Wi-Fi / Bluetooth / 4G							
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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