

INVERTERS

SUN-3-8K-SG06LP3-EU-BM2

Hybrid inverter · Three-phase · 3 – 8 kW · 5 models


3 – 8 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-3K-SG06LP3-EU-BM2	SUN-4K-SG06LP3-EU-BM2	SUN-5K-SG06LP3-EU-BM2	SUN-6K-SG06LP3-EU-BM2	SUN-8K-SG06LP3-EU-BM2
PV input						
Max. PV input power	W	6000	8000	10000	12000	16000
Max. usable PV input power	W	4800	6400	8000	9600	12800
Max. PV input voltage	V	800				
Rated PV input voltage	V	550				
MPPT voltage range	V	200 – 650				
Start-up voltage	V	160				
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	3000	4000	5000	6000	8000
Max. apparent power	VA	3300	4400	5500	6600	8800
Rated AC voltage	V	400				
Rated AC output current	A	4.4	5.8	7.3	8.7	11.6
Phase		Three-phase				
Rated AC frequency	Hz	50/60				
Max. AC output current	A	4.8	6.4	8	9.6	12.8
Total harmonic distortion (THDi)	%	<3				
Power factor		0.8 leading to 0.8 lagging				
Peak (surge) power	W	6000	8000	10000	12000	16000
Generator input		Yes				
Max. parallel units		10				

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Max. continuous AC passthrough (grid to load)	A	45				
DC injection current		<0.5% In				
Three-phase unbalanced output		100% (max. 50% of rated power per phase)				
Battery						
Battery type		Lead-acid or lithium-ion				
Battery voltage range	V	40 – 60				
Max. charge current	A	70	95	120	135	190
Max. discharge current	A	70	95	120	135	190
Charging strategy for Li-ion battery		Self-adaption to BMS				
Number of battery inputs		1				
Efficiency						
Max. efficiency	%	97.6				
European efficiency	%	96.5				
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	334 × 560 × 216				
Weight	kg	20.8				21.9
Ingress protection (IP rating)		IP65				
Operating temperature range	°C	–40 – 60				
Relative humidity	%	0 – 100				
Max. operating altitude	m	3000				
Cooling		Natural cooling				Intelligent air cooling
Noise level	dB	<45				
Topology		Non-isolated (solar), isolated (battery)				
Warranty	years	5 – 10				
Overvoltage category		OVC II (DC), OVC III (AC)				
Communication						
Display		LCD				
Communication interfaces		Wi-Fi; RS485; CAN				

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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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