

INVERTERS

SUN-3-6K-SG04LP1-EU-SM1-SM2

Hybrid inverter · Single-phase · 3 – 6 kW · 4 models


3 – 6 kW

RATED POWER

Single-phase

PHASE

1

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-3K-SG04LP1-EU-SM1	SUN-3.6K-SG04LP1-EU-SM2	SUN-5K-SG04LP1-EU-SM2	SUN-6K-SG04LP1-EU-SM2
PV input					
Max. PV input power	W	6000	7200	10000	12000
Max. usable PV input power	W	4800	5760	8000	9600
Max. PV input voltage	V	500			
Rated PV input voltage	V	370			
MPPT voltage range	V	150 – 425			
Start-up voltage	V	125			
Max. input current per MPPT	A	18			
Max. short-circuit current per MPPT	A	27			
Number of MPPT trackers		1	2		
PV strings per MPPT		1			
AC output					
Rated output power	W	3000	3600	5000	6000
Max. apparent power	VA	3300	3960	5500	6600
Rated AC voltage	V	230			
Rated AC output current	A	13.1	15.7	21.8	26.1
Max. AC output current	A	14.4	17.3	24	28.7
Phase		Single-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	6000	7200	10000	12000
Peak power duration (off-grid)	s	10			
Rated AC voltage options	V	220; 230			

Parameter	Unit	SUN-3K-SG04LP1-EU-SM1	SUN-3.6K-SG04LP1-EU-SM2	SUN-5K-SG04LP1-EU-SM2	SUN-6K-SG04LP1-EU-SM2
AC voltage range		0.85 Un-1.1 Un			
Grid connection type		L+N+PE			
Grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65			
Max. continuous AC passthrough (grid to load)	A	35			40
DC injection current		<0.5% In			
Generator input		Yes			
Max. parallel units		16			
Battery					
Battery type		Lead-acid or lithium-ion			
Battery voltage range	V	40 – 60			
Max. charge current	A	70	90	120	135
Max. discharge current	A	70	90	120	135
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	376 × 470 × 241.5			
Weight	kg	17.6			19
Ingress protection (IP rating)		IP65			
Operating temperature range	°C	-40 – 60			
Relative humidity	%	0 – 100			
Max. operating altitude	m	2000			
Cooling		Natural cooling			
Noise level	dB	<45			
Topology		Non-isolated (solar), isolated (battery)			
Overvoltage category		OVC II (DC), OVC III (AC)			
Warranty	years	5 – 10			

Parameter	Unit	SUN-3K-SG04LP1-EU-SM1	SUN-3.6K-SG04LP1-EU-SM2	SUN-5K-SG04LP1-EU-SM2	SUN-6K-SG04LP1-EU-SM2
Communication					
Display		Colorful touch LCD			
Communication interfaces		Wi-Fi; RS485; CAN			
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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