

INVERTERS

SUN-3.6-10K-SG05LP1-EU-AM2-P

Hybrid inverter · Single-phase · 3.6 – 10 kW · 7 models


3.6 – 10 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-3.6K-SG05LP1-EU-AM2-P	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P	SUN-7K-SG05LP1-EU-AM2-P	SUN-7.6K-SG05LP1-EU-AM2-P	SUN-8K-SG05LP1-EU-AM2-P	SUN-10K-SG05LP1-EU-AM2-P
PV input								
Max. PV input power	W	7200	10000	12000	14000	15200	16000	20000
Max. usable PV input power	W	5760	8000	9600	11200	12160	12800	16000
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			32			
Max. short-circuit current per MPPT	A	27			48			
Number of MPPT trackers		2						
PV strings per MPPT		1			2			
AC output								
Rated output power	W	3600	5000	6000	7000	7600	8000	10000
Max. apparent power	VA	3960	5500	6600	7700	8360	8800	11000
Rated AC voltage	V	230						
Rated AC output current	A	15.7	21.7	26.1	30.5	33	34.8	43.5
Phase		Single-phase						
Rated AC frequency	Hz	50/60						
Max. AC output current	A	17.2	23.9	28.7	33.5	36.3	38.3	47.9
Total harmonic distortion (THDi)	%	<3						
Power factor		0.8 leading to 0.8 lagging						
Peak (surge) power	W	7200	10000	12000	14000	15200	16000	20000
Generator input		Yes						

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Max. parallel units		16						
Max. continuous AC passthrough (grid to load)	A	35		40	50			
DC injection current		<0.5% In						
Battery								
Battery type		Lead-acid or lithium-ion						
Battery voltage range	V	40 – 60						
Max. charge current	A	90	120	135	175	190		210
Max. discharge current	A	90	120	135	175	190		210
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	330 × 580 × 232						
Weight	kg	24.9						
Ingress protection (IP rating)		IP65						
Operating temperature range	°C	–40 – 60						
Relative humidity	%	0 – 100						
Max. operating altitude	m	2000						
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		Colorful touch 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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