

INVERTERS

SUN-3-8.8K-OG03LP1-EU-AM1-AM2

Off-grid inverter · Single-phase · 3 – 8.8 kW · 5 models


3 – 8.8 kW

RATED POWER

Single-phase

PHASE

1

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-3K-OG03LP1-EU-AM1	SUN-3.6K-OG03LP1-EU-AM1	SUN-5K-OG03LP1-EU-AM2	SUN-6.6K-OG03LP1-EU-AM2	SUN-8.8K-OG03LP1-EU-AM2
PV input						
Max. PV input power	W	6000	7200	10000	13200	17600
Max. usable PV input power	W	4800	5760	8000	10560	14080
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				36
Max. short-circuit current per MPPT	A	27				54
Number of MPPT trackers		1		2		
PV strings per MPPT		1				
Max. PV input current by MPPT tracker	A	18		18+18		36+18
Max. PV short-circuit current by MPPT tracker	A	27		27+27		54+27
AC output						
Rated output power	W	3000	3600	5000	6600	8800
Max. apparent power	VA	3000	3600	5000	6600	8800
Rated AC voltage	V	230				
Rated AC output current	A	13.1	15.7	21.8	28.7	38.3
Max. AC output current	A	13.1	15.7	21.8	28.7	38.3
Phase		Single-phase				
Rated AC frequency	Hz	50/60				
Total harmonic distortion (THDi)	%	<3				

Parameter	Unit	SUN-3K-0G03LP1-EU-AM1	SUN-3.6K-0G03LP1-EU-AM1	SUN-5K-0G03LP1-EU-AM2	SUN-6.6K-0G03LP1-EU-AM2	SUN-8.8K-0G03LP1-EU-AM2
Peak (surge) power	W	6000	7200	10000	13200	17600
Peak power duration	s	10				
Output waveform		Pure sine wave				
Output connection type		L+N+PE				
Generator input		Yes				
Max. parallel units		16				
Grid / off-grid switchover time	ms	4				
Max. AC input power to battery	W	3000	3600	5000	6600	8800
AC input rated voltage	V	230				
AC input rated frequency	Hz	50/60				
Grid input current	A	35				50
Generator input current	A	35				50
Battery						
Battery type		Lead-acid or lithium-ion				
Battery voltage range	V	40 – 60				
Max. charge current	A	70	90	120	140	190
Max. discharge current	A	70	90	120	140	190
Charging strategy for Li-ion battery		Self-adaption to BMS				
Number of battery inputs		1				
Max. batteries in parallel	pcs	32				
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; Insulation impedance detection				
Surge protection level		Type II (DC), Type II (AC)				
General data						
Dimensions (W x H x D)	mm	323 × 424 × 176				
Weight	kg	8.6				
Ingress protection (IP rating)		IP65				
Operating temperature range	°C	−40 – 60				
Relative humidity	%	0 – 100				
Max. operating altitude	m	3000				
Cooling		Intelligent air cooling				
Noise level	dB	<46				
Topology		Non-isolated (solar), isolated (battery)				

Parameter	Unit	SUN-3K-0G03LP1-EU-AM1	SUN-3.6K-0G03LP1-EU-AM1	SUN-5K-0G03LP1-EU-AM2	SUN-6.6K-0G03LP1-EU-AM2	SUN-8.8K-0G03LP1-EU-AM2
Overvoltage category		OVC II (DC), OVC III (AC)				
Warranty	years	5				
Communication						
Display		LCD				
Communication interfaces		Wi-Fi; Bluetooth; RS485; CAN				
Certifications						
Certifications and standards		IEC 62109-1/-2; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4				

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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