

INVERTERS

SUN-8-15K-SG01HP2-US-AM2

Hybrid inverter · Split-phase · 8 – 15 kW · 4 models


8 – 15 kW

RATED POWER

Split-phase

PHASE

2

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-8K-SG01HP2-US-AM2	SUN-10K-SG01HP2-US-AM2	SUN-12K-SG01HP2-US-AM2	SUN-15K-SG01HP2-US-AM2
PV input					
Max. PV input power	W	16000	20000	24000	30000
Max. usable PV input power	W	12000	15000	18000	22500
Max. PV input voltage	V	550			
Rated PV input voltage	V	380			
MPPT voltage range	V	150 – 500			
Start-up voltage	V	180			
Max. input current per MPPT	A	26			
Max. short-circuit current per MPPT	A	39			
Number of MPPT trackers		2			
PV strings per MPPT		2			
AC output					
Rated output power	W	8000	10000	12000	15000
Max. apparent power	VA	8000	10000	12000	15000
Rated AC voltage	V	240			
Rated AC output current	A	33.4	41.7	50	62.5
Phase		Split-phase			
Rated AC frequency	Hz	60			
Max. AC output current	A	33.4	41.7	50	62.5
Total harmonic distortion (THDi)	%	<3			
Power factor		0.8 leading to 0.8 lagging			
Peak (surge) power	W	16000	20000	24000	30000
Generator input		Yes			
Max. parallel units		10			

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Grid connection form		2L+N+PE			
Max. continuous AC passthrough (grid to load)	A	150			
DC injection current		<0.5% In			
Unbalanced output capability		100%			
Battery					
Battery type		Lithium-ion			
Battery voltage range	V	160 – 500			
Max. charge current	A	50			
Max. discharge current	A	50			
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	408 × 678 × 247			
Weight	kg	30			
Ingress protection (IP rating)		IP65			
Enclosure type		Type 3R			
Operating temperature range	°C	–40 – 60			
Relative humidity	%	0 – 100			
Max. operating altitude	m	2000			
Cooling		Intelligent air cooling			
Noise level	dB	≤55			
Topology		Non-isolated			
Warranty	years	5 – 10			
Overvoltage category		OVC II (DC), OVC IV (AC)			
Communication					
Display		LCD			
Communication interfaces		Wi-Fi; RS485; CAN			

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Certifications					
Certifications and standards		FCC; UL 1741			
Grid codes		IEEE 1547.1; SRD V2.0			

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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