

INVERTERS

SUN-4.95-8K-SG02HP2-JP-FM4

Hybrid inverter · Split-phase · 4.95 – 8 kW · 3 models


4.95 – 8 kW

RATED POWER

Split-phase

PHASE

4

MPPT TRACKERS

IP65

PROTECTION CLASS

Parameter	Unit	SUN-4.95K-SG02HP2-JP-FM4	SUN-5.5K-SG02HP2-JP-FM4	SUN-8K-SG02HP2-JP-FM4
PV input				
Max. PV input power	W	10000	11000	16000
Max. usable PV input power	W	8000	8800	12600
Max. PV input voltage	V	500		
Rated PV input voltage	V	350		
MPPT voltage range	V	50 – 450		
Start-up voltage	V	70		
Max. input current per MPPT	A	20		
Max. short-circuit current per MPPT	A	30		
Number of MPPT trackers		4		
PV strings per MPPT		1		
Full-load MPPT voltage range	V	250 – 450		
AC output				
Rated output power	W	4950	5500	8000
Max. apparent power	VA	5440	6050	8800
Rated AC voltage	V	202		
Rated AC output current	A	24.6	27.3	39.7
Max. AC output current	A	27	30	43.6
Phase		Split-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	7425	8250	12000
Rated output voltage (L-N / L-L)	V	101/202		

Parameter	Unit	SUN-4.95K-SG02HP2-JP-FM4	SUN-5.5K-SG02HP2-JP-FM4	SUN-8K-SG02HP2-JP-FM4
Electrical system		Single-phase three-wire (supports 101 V and 202 V)		
Max. continuous AC bus pass-through current (grid to load)	A	80		
Grid DC component		<0.5% In		
Battery				
Battery type		Lead-acid or lithium-ion		
Battery voltage range	V	80 – 500		
Max. charge current	A	50		
Max. discharge current	A	50		
Battery charging method		Self-adaptation to BMS		
Number of battery inputs		1		
Protection				
Protection functions		Integrated DC reverse polarity protection; AC output overcurrent protection; Overheat protection; AC output overvoltage protection; AC output short circuit protection; DC component detection; Overvoltage load reduction protection; Ground fault current detection; Arc fault circuit interrupter (optional); Power system monitoring and control; Islanding detection; Ground fault detection; DC input switch; DC terminal insulation resistance detection; Residual current (RCD) detection; Surge protection		
General data				
Dimensions (W x H x D)	mm	423 × 570 × 256.5		
Weight	kg	32		
Ingress protection (IP rating)		IP65		
Operating temperature range	°C	−40 – 60		
Relative humidity	%	0 – 100		
Max. operating altitude	m	3000		
Cooling		Natural air cooling		
Noise level	dB	≤50		
Topology		Non-isolated		
Warranty	years	10		
Overvoltage category		OVC II (DC), OVC II (AC)		
Surge protection level		Type III		
Certifications				
Certifications and standards		S-JET		

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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