

INVERTERS

SUN-15-25K-SG02HP3-EU-DM3

Hybrid inverter · Three-phase · 15 – 25 kW · 3 models


15 – 25 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-15K-SG02HP3-EU-DM3	SUN-20K-SG02HP3-EU-DM3	SUN-25K-SG02HP3-EU-DM3
PV input				
Max. PV input power	W	30000	40000	50000
Max. usable PV input power	W	24000	32000	40000
Max. PV input voltage	V	1000		
Rated PV input voltage	V	600		
MPPT voltage range	V	150 – 850		
Start-up voltage	V	180		
Max. input current per MPPT	A	36		
Max. short-circuit current per MPPT	A	54		
Number of MPPT trackers		3		
PV strings per MPPT		2		
Max. operating PV input current per MPPT (A / B / C)	A	36 / 20 / 20		
Max. input short-circuit current per MPPT (A / B / C)	A	54 / 30 / 30		
PV strings per MPPT (A / B / C)		2 / 1 / 1		
AC output				
Rated output power	W	15000	20000	25000
Max. apparent power	VA	16500	22000	27500
Rated AC voltage	V	400		
Rated AC output current	A	21.8	29	36.3
Phase		Three-phase		
Rated AC frequency	Hz	50/60		
Max. AC output current	A	24	31.9	39.9
Total harmonic distortion (THDi)	%	<3		

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Power factor		0.8 leading to 0.8 lagging		
Peak (surge) power	W	22500	30000	37500
Peak power duration (off-grid)	s	10		
Rated AC voltage options	V	220/380; 230/400		
AC voltage range		0.85 Un-1.1 Un		
Grid connection type		3L+N+PE		
Grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65		
Max. continuous AC passthrough (grid to load)	A	60		
DC injection current		<0.5% In		
Generator input		Yes		
Max. parallel units		10		
Unbalanced output capability	%	100		
Battery				
Battery type		Lithium-ion		
Battery voltage range	V	160 – 700		
Max. charge current	A	55		
Max. discharge current	A	55		
Charging strategy for Li-ion battery		Self-adaption to BMS		
Number of battery inputs		1		
Efficiency				
Max. efficiency	%	97.6		
European efficiency	%	97		
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				
Ingress protection (IP rating)		IP65		
Operating temperature range	°C	-40 – 60		
Power derating above	°C	45		
Relative humidity	%	0 – 100		
Max. operating altitude	m	3000		
Cooling		Intelligent air cooling		
Noise level	dB	≤45		
Topology		Non-isolated		
Warranty	years	5 – 10		

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Overvoltage category		OVC II (DC), OVC III (AC)		
Communication				
Display		LCD + LED		
Communication interfaces		Wi-Fi; RS485; CAN		
Monitoring		GPRS / Wi-Fi / Bluetooth / 4G		
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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