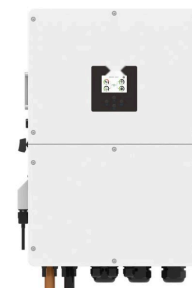


INVERTERS

SUN-29.9-50K-SG02HP3-EU-BM3-BM4-P

Hybrid inverter · Three-phase · 29.9 – 50 kW · 5 models


29.9 – 50 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-29.9K-SG02HP3-EU-BM3-P	SUN-30K-SG02HP3-EU-BM3-P	SUN-35K-SG02HP3-EU-BM3-P	SUN-40K-SG02HP3-EU-BM4-P	SUN-50K-SG02HP3-EU-BM4-P
PV input						
Max. PV input power	W	59800	60000	70000	80000	100000
Max. usable PV input power	W	47840	48000	56000	64000	80000
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	55				
Number of MPPT trackers		3			4	
PV strings per MPPT		2				
AC output						
Rated output power	W	29900	30000	35000	40000	50000
Max. apparent power	VA	29900	33000	38500	44000	55000
Rated AC voltage	V	400				
Rated AC output current	A	43.4	43.5	50.8	58	72.5
Phase		Three-phase				
Rated AC frequency	Hz	50/60				
Max. AC output current	A	43.4	47.9	55.8	63.8	79.8
Total harmonic distortion (THDi)	%	<3				
Power factor		0.8 leading to 0.8 lagging				
Peak (surge) power	W	44850	45000	52500	60000	75000
Peak power duration (off-grid)	s	10				
Rated AC voltage options	V	220/380; 230/400				

Parameter	Unit	SUN-29.9K-SG02HP3-EU-BM3-P	SUN-30K-SG02HP3-EU-BM3-P	SUN-35K-SG02HP3-EU-BM3-P	SUN-40K-SG02HP3-EU-BM4-P	SUN-50K-SG02HP3-EU-BM4-P
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	200				
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 – 800				
Max. charge current	A	160				
Max. discharge current	A	160				
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						
Dimensions (W x H x D)	mm	528 × 793 × 278				
Weight	kg	65				
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	≤65				
Topology		Non-isolated				
Warranty	years	5 – 10				
Overvoltage category		OVC II (DC), OVC III (AC)				

Parameter	Unit	SUN-29.9K-SG02HP3-EU-BM3-P	SUN-30K-SG02HP3-EU-BM3-P	SUN-35K-SG02HP3-EU-BM3-P	SUN-40K-SG02HP3-EU-BM4-P	SUN-50K-SG02HP3-EU-BM4-P
Communication						
Display		LCD				
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; G98; 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.

E-mail lidreamtec@163.com
WhatsApp +86 133 5280 0772