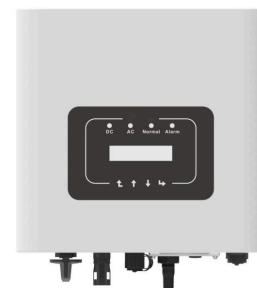


INVERTERS

SUN-1-4K-G04P1-EU-CM1

String inverter · Single-phase · 1 – 4 kW · 10 models


1 – 4 kW

RATED POWER

Single-phase

PHASE

1

MPPT TRACKERS

97.3 – 97.5 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	550
Start-up voltage	V	80
MPPT voltage range	V	70 – 500
Max. input current per MPPT	A	20
Max. short-circuit current per MPPT	A	30
Number of MPPT trackers		1
PV strings per MPPT		1
AC output		
Rated AC voltage	V	230
Rated AC voltage options	V	220; 230
AC voltage range		0.85 Un-1.1 Un
Phase		Single-phase
Grid connection type		L/N/PE
Rated AC frequency	Hz	50/60
Grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65
Total harmonic distortion (THDi)	%	<3
Power factor		0.8 leading to 0.8 lagging
DC injection current		<0.5% In
Supported applications		Zero export; VSG
Efficiency		
MPPT efficiency	%	>99

Parameter	Unit	Common to all models
Protection		
Protection functions		DC reverse polarity protection; AC output overcurrent protection; AC output overvoltage protection; AC output short-circuit protection; Thermal protection; Insulation impedance detection; DC component monitoring; Arc fault circuit interrupter (AFCI)(optional); Anti-islanding protection; Residual current detection; DC switch
Surge protection level		Type II (DC), Type II (AC)
Anti-PID function		Optional
General data		
Dimensions (W x H x D)	mm	280 × 272.5 × 171.5
Weight	kg	5.6
Ingress protection (IP rating)		IP65
Operating temperature range	°C	-25 – 65
Power derating above	°C	45
Relative humidity	%	0 – 100
Max. operating altitude	m	3000
Noise level	dB	≤35
Topology		Non-isolated
Cooling		Natural cooling
Overvoltage category		OVC II (DC), OVC III (AC)
Warranty	years	5
Communication		
Display		LCD1602
Communication interfaces		RS485; RS232; Wi-Fi; LAN
Monitoring		String intelligent monitoring (optional)
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; G98; G99; VDE-AR-N 4105

Parameter	Unit	SUN-1K-G04P1-EU-CM1	SUN-1.5K-G04P1-EU-CM1	SUN-2K-G04P1-EU-CM1	SUN-2.2K-G04P1-EU-CM1	SUN-2.5K-G04P1-EU-CM1
PV input						
Max. PV input power	W	1300	2000	2600	2900	3300
Rated PV input voltage	V	360				
AC output						
Rated output power	W	1000	1500	2000	2200	2500
Max. apparent power	VA	1100	1650	2200	2420	2750
Rated AC output current	A	4.4	6.5	8.7	9.6	10.9
Max. AC output current	A	4.8	7.2	9.6	10.6	12

Parameter	Unit	SUN-1K-G04P1-EU-CM1	SUN-1.5K-G04P1-EU-CM1	SUN-2K-G04P1-EU-CM1	SUN-2.2K-G04P1-EU-CM1	SUN-2.5K-G04P1-EU-CM1
Efficiency						
Max. efficiency	%	97.3				
European efficiency	%	96.9				

Parameter	Unit	SUN-2.7K-G04P1-EU-CM1	SUN-3K-G04P1-EU-CM1	SUN-3.3K-G04P1-EU-CM1	SUN-3.6K-G04P1-EU-CM1	SUN-4K-G04P1-EU-CM1
PV input						
Max. PV input power	W	3500	3900	4300	4700	5200
Rated PV input voltage	V	360				420
AC output						
Rated output power	W	2700	3000	3300	3600	4000
Max. apparent power	VA	2970	3300	3630	3960	4400
Rated AC output current	A	11.8	13.1	14.4	15.7	17.4
Max. AC output current	A	13	14.4	15.8	17.3	19.2
Efficiency						
Max. efficiency	%	97.3	97.5			
European efficiency	%	96.9	97			

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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