

INVERTERS

SUN-M30-50G4-EU-Q0-I

Microinverter · Single-phase · 300 – 500 W · 3 models


300 – 500 W

RATED POWER

Single-phase

PHASE

1

MPPT TRACKERS

96.5 %

MAX. EFFICIENCY

Parameter	Unit	SUN-M30G4-EU-Q0-I	SUN-M40G4-EU-Q0-I	SUN-M50G4-EU-Q0-I
PV input				
Recommended PV module power	W	210 – 420	210 – 560	210 – 700
Number of connectable PV modules		1		
Max. PV input voltage	V	60		
Start-up voltage	V	20		
MPPT voltage range	V	25 – 55		
Rated PV input voltage	V	42.5		
Max. input current per MPPT	A	15		
Max. short-circuit current per MPPT	A	22.5		
Number of MPPT trackers		1		
PV strings per MPPT		1		
AC output				
Rated output power	W	300	400	500
Max. apparent power	VA	300	400	500
Rated AC voltage	V	230		
Rated AC output current	A	1.4	1.8	2.2
Max. AC output current	A	1.4	1.8	2.2
Phase		Single-phase		
Rated AC frequency	Hz	50/60		
Total harmonic distortion (THDi)	%	<3		
Power factor		0.9 leading to 0.9 lagging		
Max. units per AC branch		17	13	10
Rated output voltage and range		220/230 V; range 0.85 Un-1.1 Un		
Grid connection form		L/N/PE		

Parameter	Unit	SUN-M30G4-EU-00-I	SUN-M40G4-EU-00-I	SUN-M50G4-EU-00-I
Rated output grid frequency and range		50 Hz (45-55 Hz); 60 Hz (55-65 Hz)		
DC injection current		<0.5% In		
Efficiency				
Max. efficiency	%	96.5		
European efficiency	%	96		
MPPT efficiency	%	>99		
Protection				
Protection functions		DC polarity reverse connection protection; AC output overcurrent protection; AC output overvoltage protection; AC output short circuit protection; Thermal protection; DC terminal insulation impedance monitoring; Power network monitoring; Island protection monitoring; Earth fault detection; Overvoltage load drop protection; Rapid shutdown function (AC fast discharge <100 ms); NS protection with self-check function		
General data				
Dimensions (W x H x D)	mm	173 × 158.5 × 31.5		
Weight	kg	1.85		
Ingress protection (IP rating)		IP67		
Operating temperature range	°C	−40 – 65		
Power derating starts above	°C	45		
Relative humidity	%	0 – 100		
Max. operating altitude	m	2000		
Noise level	dB	≤25		
Cooling		Natural cooling		
Topology		Isolated		
Warranty	years	15		
Design lifetime	years	25		
Overvoltage category		OVC II (DC), OVC III (AC)		
Communication				
Communication interfaces		Wi-Fi		
Monitoring		Module-level monitoring		
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; VDE-AR-N 4105		

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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