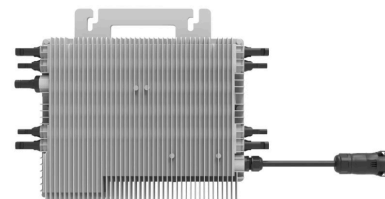


INVERTERS

SUN-M130-220G4-EU-Q0

Microinverter · Single-phase · 1.3 – 2.2 kW · 5 models


1.3 – 2.2 kW

RATED POWER

Single-phase

PHASE

4

MPPT TRACKERS

96.5 %

MAX. EFFICIENCY

Parameter	Unit	SUN-M130G4-EU-Q0	SUN-M160G4-EU-Q0	SUN-M180G4-EU-Q0	SUN-M200G4-EU-Q0	SUN-M220G4-EU-Q0
PV input						
Recommended PV module power	W	210 – 460	210 – 560	210 – 630	210 – 700	210 – 770
Number of connectable PV modules		4				
Max. PV input voltage	V	60				
Rated PV input voltage	V	42.5				
MPPT voltage range	V	25 – 55				
Start-up voltage	V	20				
Max. input current per MPPT	A	15				18
Max. short-circuit current per MPPT	A	22.5				27
Number of MPPT trackers		4				
PV strings per MPPT		1				
AC output						
Rated output power	W	1300	1600	1800	2000	2200
Max. apparent power	VA	1300	1600	1800	2000	2200
Rated AC voltage	V	230				
Rated AC output current	A	5.7	7	7.9	8.7	9.6
Max. AC output current	A	5.7	7	7.9	8.7	9.6
Phase		Single-phase				
Rated AC frequency	Hz	50/60				
Power factor		0.9 leading to 0.9 lagging (adjustable)				
Total harmonic distortion (THDi)	%	<3				
Max. units per AC branch		5	4	3		
AC voltage range		0.85 Un-1.1 Un				
Grid connection		L/N/PE				

Parameter	Unit	SUN-M130G4-EU-Q0	SUN-M160G4-EU-Q0	SUN-M180G4-EU-Q0	SUN-M200G4-EU-Q0	SUN-M220G4-EU-Q0
AC grid frequency 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 reverse polarity protection; AC output overcurrent protection; AC output overvoltage protection; AC output short-circuit protection; Thermal protection; Insulation impedance detection; Anti-islanding protection; AC surge protection (Type II)				
Other safety features		Rapid shutdown function				
General data						
Dimensions (W x H x D)	mm	311 × 250.5 × 36.5				358 × 255.5 × 36.5
Weight	kg	5.1				5.2
Ingress protection (IP rating)		IP67				
Operating temperature range	°C	−40 – 65				
Power derating above	°C	45				
Relative humidity	%	0 – 100				
Max. operating altitude	m	2000				
Cooling		Natural cooling				
Noise level	dB	≤25				
Topology		Isolated				
Overvoltage category		OVC II (DC); OVC III (AC)				
Warranty	years	10				
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; G99; VDE-AR-N 4105				

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

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