

INVERTERS

SUN-18-25K-G05

String inverter · Three-phase · 18 – 25 kW · 5 models


18 – 25 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.5 %

MAX. EFFICIENCY

Parameter	Unit	SUN-18K-G05	SUN-20K-G05	SUN-22K-G05	SUN-23K-G05	SUN-25K-G05
PV input						
Max. PV input power	W	23400	26000	28600	29900	32500
Max. PV input voltage	V	1100				
Rated PV input voltage	V	600				
MPPT voltage range	V	200 – 1000				
Start-up voltage	V	250				
Max. input current per MPPT	A	26				
Max. short-circuit current per MPPT	A	39				
Number of MPPT trackers		2				
PV strings per MPPT		2				
AC output						
Rated output power	W	18000	20000	22000	23000	25000
Max. apparent power	VA	19800	22000	24200	25300	27500
Rated AC voltage	V	400				
Rated AC output current	A	26.1	29	31.9	33.4	36.2
Phase		Three-phase				
Rated AC frequency	Hz	50/60				
Max. AC output current	A	28.7	31.9	35.1	36.7	39.8
Total harmonic distortion (THDi)	%	<3				
Power factor		0.8 leading to 0.8 lagging				
Grid connection type		3L/N/PE				
Rated AC voltage options	V	220/380; 230/400				
AC voltage range (relative to rated voltage)		0.85 Un-1.1 Un				

Parameter	Unit	SUN-18K-G05	SUN-20K-G05	SUN-22K-G05	SUN-23K-G05	SUN-25K-G05
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65				
DC injection current		<0.5% In				
Efficiency						
Max. efficiency	%	98.5				
European efficiency	%	98				
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; 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	362 × 527 × 220				
Weight	kg	20				
Ingress protection (IP rating)		IP65				
Operating temperature range	°C	-25 – 60				
Relative humidity	%	0 – 100				
Max. operating altitude	m	4000				
Cooling		Intelligent air cooling				
Noise level	dB	≤50				
Topology		Non-isolated				
Warranty	years	5				
Overvoltage category		OVC II (DC), OVC III (AC)				
Communication						
Communication interfaces		RS485; RS232				
Monitoring		GPRS / Wi-Fi / Bluetooth / 4G / LAN (optional); 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; OVE-Richtlinie R25; G99; VDE-AR-N 4105				

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

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