

INVERTERS

SUN-18-21K-G04-LV

String inverter · Three-phase · 18 – 21 kW · 3 models


18 – 21 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.6 %

MAX. EFFICIENCY

Parameter	Unit	SUN-18K-G04-LV	SUN-20K-G04-LV	SUN-21K-G04-LV
PV input				
Max. PV input power	W	27000	30000	31500
Max. PV input voltage	V	800		
Start-up voltage	V	250		
MPPT voltage range	V	200 – 700		
Rated PV input voltage	V	350		
Max. input current per MPPT	A	40		
Max. short-circuit current per MPPT	A	60		
Number of MPPT trackers		2		
PV strings per MPPT		3		
AC output				
Rated output power	W	18000	20000	21000
Max. apparent power	VA	18000	20000	21000
Rated AC voltage	V	230		
Rated AC output current	A	45.2	50.2	52.7
Max. AC output current	A	45.2	50.2	52.7
Phase		Three-phase		
Rated AC frequency	Hz	50/60		
Total harmonic distortion (THDi)	%	<3		
Power factor		0.8 leading to 0.8 lagging		
Rated AC voltage options (phase / line)	V	127/220; 133/230		
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		

Parameter	Unit	SUN-18K-G04-LV	SUN-20K-G04-LV	SUN-21K-G04-LV
DC injection current		<0.5% In		
Efficiency				
Max. efficiency	%	98.6		
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	330 × 572 × 206		
Weight	kg	28.7		
Ingress protection (IP rating)		IP65		
Operating temperature range	°C	-25 – 65		
Relative humidity	%	0 – 100		
Max. operating altitude	m	2000		
Cooling		Intelligent air cooling		
Noise level	dB	≤50		
Topology		Non-isolated		
Overvoltage category		OVC II (DC), OVC III (AC)		
Warranty	years	5		
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		NBR 16149; NBR 16150; EN 50549; RD 140		

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

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