

INVERTERS

G5-GR3P(12-25)K(21A)

String inverter · Three-phase · 12 – 25 kW · 7 models


12 – 25 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.5 – 98.7 %

MAX. EFFICIENCY

Parameter	Unit	G5-GR3P12K(21A)	G5-GR3P13K(21A)	G5-GR3P15K(21A)	G5-GR3P17K(21A)	G5-GR3P20K(21A)	G5-GR3P23K(21A)	G5-GR3P25K(21A)
PV input								
Max. PV input power	W	18000	19500	22500	25500	30000	34500	37500
Max. PV input voltage	V	1100						
Rated PV input voltage	V	600						
Start-up voltage	V	160						
MPPT voltage range	V	160 – 1000						
Max. input current per MPPT	A	32			42			
Max. short-circuit current per MPPT	A	40			52.5			
Number of MPPT trackers		2						
Max. PV input current by MPPT tracker	A	32 / 21			42 / 32			
Max. PV short-circuit current by MPPT tracker	A	40 / 26.3			52.5 / 40			
Max. number of input strings		3			4			
AC output								
Rated output power	W	12000	13000	15000	17000	20000	23000	25000
Max. apparent power	VA	13200	14300	16500	18700	22000	25300	27500
Max. active power	W	13200	14300	16500	18700	22000	25300	27500
Rated AC voltage	V	380						
Rated AC output current	A	18.2	19.8	22.8	25.8	30.4	34.9	38
Max. AC output current	A	20.1	21.7	25.1	28.4	33.5	38.4	41.8
Phase		Three-phase						
Rated AC frequency	Hz	50						
Total harmonic distortion (THDi)		<3						

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Power factor		>0.99 (0.8 leading ... 0.8 lagging)						
Grid connection type		3/N/PE						
Efficiency								
Max. efficiency	%	98.5	98.6		98.7			
China efficiency	%	97.9	98.0		98.1			
Protection								
Protection functions		DC reverse polarity protection; AC short-circuit protection; AC output overcurrent protection; Surge protection; Grid monitoring; Anti-islanding protection; Temperature protection; I/V curve scanning; Multi-peak scanning; Integrated DC switch; DC arc fault protection (AFCI)(optional)						
Corrosion protection class		C5						
General data								
Dimensions (W x H x D)	mm	310 × 518 × 219						
Weight	kg	19			20.7		21.4	
Topology		Transformerless						
Night-time power consumption	W	<1						
Operating temperature range	°C	-25 – 60						
Relative humidity	%	0 – 100						
Ingress protection (IP rating)		IP66						
Noise level	dB	<40			<50			
Cooling		Natural cooling with built-in fan			Intelligent air cooling			
Max. operating altitude	m	4000						
DC connection		MC4 connector						
AC connection		OT terminal						
Communication								
Display		LED indicators						
Communication interfaces		RS485 x 2 (standard); Wi-Fi (optional); 4G (optional)						
Monitoring		24-hour load consumption monitoring						
Certifications								
Certifications and standards		IEC 62109-1/-2; IEC 61000-6-1/-2/-3/-4; NB/T 32004						
Grid codes		NB/T 32004; GB/T 29319						

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

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