

INVERTERS

G6-GR1P(7-8)K2

String inverter · Single-phase · 7 – 8 kW · 2 models


7 – 8 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97.7 %

MAX. EFFICIENCY

Parameter	Unit	G6-GR1P7K2	G6-GR1P8K2
PV input			
Max. PV input power	W	10500	12000
Max. PV input voltage	V	550	
Rated PV input voltage	V	330	
Start-up voltage	V	90	
MPPT voltage range	V	90 – 500	
Max. input current per MPPT	A	32	
Max. short-circuit current per MPPT	A	40	
Number of MPPT trackers		2	
PV strings per MPPT		2	
Max. PV input current by MPPT tracker	A	16 / 32	
Max. PV short-circuit current by MPPT tracker	A	20 / 40	
Max. number of input strings		3	
AC output			
Rated output power	W	7000	8000
Max. apparent power	VA	7700	8000
Max. active power	W	7700	8000
Rated AC voltage	V	220	
Grid connection type		1/N/PE	
Phase		Single-phase	
Rated AC frequency	Hz	50	
Rated AC output current	A	31.8	36.4
Max. AC output current	A	35	36.4

Parameter	Unit	G6-GR1P7K2	G6-GR1P8K2
Power factor		>0.99 (0.8 leading to 0.8 lagging)	
Total harmonic distortion (THDi)	%	<3	
Efficiency			
Max. efficiency	%	97.7	
European efficiency	%	96.8	
Protection			
Protection functions		DC reverse polarity protection; AC short-circuit protection; AC output overcurrent protection; Surge protection; Grid monitoring; Anti-islanding protection; Temperature protection; Multi-peak scanning; Integrated DC switch; DC arc-fault protection (AFCI)(optional)	
Anti-backflow / zero export		Integrated anti-backflow (EPM)	
General data			
Dimensions (W x H x D)	mm	310 × 550 × 180	
Weight	kg	13.2	
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	
Cooling		Natural cooling with built-in fan	
Max. operating altitude	m	4000	
DC connection		MC4 connector	
AC connection		Quick connector	
Communication			
Display		LCD	
Communication interfaces		RS485; Wi-Fi (optional); GPRS (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	

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

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