

INVERTERS

G6-GR1P(4-6)K

String inverter · Single-phase · 4 – 6 kW · 3 models


4 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97 %

MAX. EFFICIENCY

Parameter	Unit	G6-GR1P4K	G6-GR1P5K	G6-GR1P6K
PV input				
Max. PV input power	W	4600	5800	6600
Max. PV input voltage	V	600		
Rated PV input voltage	V	330		
Start-up voltage	V	120		
MPPT voltage range	V	90 – 520		
Max. input current per MPPT	A	14		
Max. short-circuit current per MPPT	A	22		
Number of MPPT trackers		2		
PV strings per MPPT		1		
Max. number of input strings		2		
AC output				
Rated output power	W	4000	5000	6000
Max. apparent power	VA	4400	5500	6000
Max. active power	W	4400	5500	6000
Rated AC voltage	V	220		
Grid connection type		1/N/PE		
Phase		Single-phase		
Rated AC frequency	Hz	50		
Rated AC output current	A	18.2	22.7	27.3
Max. AC output current	A	21	25	27.3
Power factor		>0.99 (0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi)	%	<3		

Parameter	Unit	G6-GR1P4K	G6-GR1P5K	G6-GR1P6K
Efficiency				
Max. efficiency	%	97		
European efficiency	%	96.5		
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 × 543 × 160		
Weight	kg	12		
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	<20		
Cooling		Natural cooling		
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 61000-6-2/-3; NB/T 32004		
Grid codes		NB/T 32004		

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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