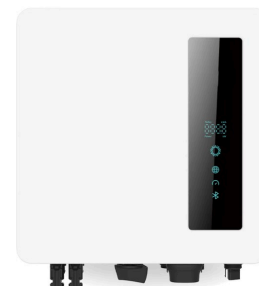


INVERTERS

G6-GR1P(2.5-6)K-S(21A)

String inverter · Single-phase · 2.5 – 6 kW · 7 models


2.5 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97.3 – 97.7 %

MAX. EFFICIENCY

Parameter	Unit	G6-GR1P2.5K-S(21A)	G6-GR1P3K-S(21A)	G6-GR1P3.6K-S(21A)	G6-GR1P4K-S(21A)	G6-GR1P4.6K-S(21A)	G6-GR1P5K-S(21A)	G6-GR1P6K-S(21A)
PV input								
Max. PV input power	W	3750	4500	5400	6000	6900	7500	9000
Max. PV input voltage	V	550						
Rated PV input voltage	V	360						
Start-up voltage	V	60						
MPPT voltage range	V	50 – 550						
Max. input current per MPPT	A	21						
Max. short-circuit current per MPPT	A	30						
Number of MPPT trackers		2						
PV strings per MPPT		1						
AC output								
Rated output power	W	2500	3000	3600	4000	4600	5000	6000
Max. apparent power	VA	2750	3300	3960	4400	5060	5500	6000
Max. active power	W	2750	3300	3960	4400	5060	5500	6000
Rated AC voltage	V	220						
Rated AC output current	A	11.4	13.6	16.4	18.2	20.9	22.7	27.3
Phase		Single-phase						
Rated AC frequency	Hz	50						
Max. AC output current	A	12.5	15	18	20	23	25	27.3
Total harmonic distortion (THDi)	%	<3						
Power factor		>0.99 (0.8 leading to 0.8 lagging)						
Efficiency								
Max. efficiency	%	97.3			97.6		97.7	
European efficiency	%	96.5	96.6		97.1			

Parameter	Unit	G6-GR1P2.5K-S(21A)	G6-GR1P3K-S(21A)	G6-GR1P3.6K-S(21A)	G6-GR1P4K-S(21A)	G6-GR1P4.6K-S(21A)	G6-GR1P5K-S(21A)	G6-GR1P6K-S(21A)
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 (optional)						
Anti-backflow / zero export		Meter interface and anti-backflow function as standard						
General data								
Dimensions (W x H x D)	mm	330 × 371 × 161						
Weight	kg	8.7	8.8		9.4	9.5		
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				Natural cooling with built-in fan		
Max. operating altitude	m	4000						
DC connector		MC4						
AC connector		Quick connector						
Communication								
Display		LED digital display						
Communication interfaces		RS485; Wi-Fi (optional); GPRS (optional)						
Monitoring		Bluetooth + app; 24 h load monitoring; remote monitoring via mobile app						
Certifications								
Certifications and standards		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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