

INVERTERS

G6-GC(50-60)K-PRO

String inverter · Three-phase · 50 – 60 kW · 2 models


50 – 60 kW

RATED POWER

Three-phase

PHASE

4

MPPT TRACKERS

98.6 %

MAX. EFFICIENCY

Parameter	Unit	G6-GC50K-PRO	G6-GC60K-PRO
PV input			
Max. PV input power	W	65000	78000
Max. PV input voltage	V	1100	
Rated PV input voltage	V	600	
Start-up voltage	V	180	
MPPT voltage range	V	180 – 1000	
Max. input current per MPPT	A	40	
Max. short-circuit current per MPPT	A	50	
Number of MPPT trackers		4	5
Max. number of input strings		8	10
AC output			
Rated output power	W	50000	60000
Max. apparent power	VA	55000	66000
Max. active power	W	55000	66000
Rated AC voltage	V	380	
Rated AC voltage (phase / line-to-line)	V	220/380	
Rated AC output current	A	76	91.2
Max. AC output current	A	83.6	100.3
Phase		Three-phase	
Grid connection type		3/N/PE	
Rated AC frequency	Hz	50	
Power factor		>0.99 (0.8 leading to 0.8 lagging)	
Total harmonic distortion (THDi)	%	<3	

Parameter	Unit	G6-GC50K-PRO		G6-GC60K-PRO
Efficiency				
Max. efficiency	%	98.6		
China efficiency	%	98.0		
Protection				
Protection functions		DC reverse polarity protection; AC short-circuit protection; AC output overcurrent protection; Surge protection (Type II DC / Type II AC); Grid monitoring; Anti-islanding protection; Temperature protection; String monitoring; I/V curve scanning; Multi-peak scanning; PID recovery (optional); Integrated DC switch; DC arc fault protection (AFCI) (optional)		
General data				
Dimensions (W x H x D)	mm	508 × 612 × 288		
Weight	kg	35.6	38.4	
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	≤55		
Cooling		Intelligent air cooling		
Max. operating altitude	m	4000		
DC connection		MC4 connector		
AC connection		OT terminal		
Communication				
Display		LED indicator; Bluetooth + app		
Communication interfaces		RS485 x 2 (standard); Wi-Fi (optional); 4G (optional)		
RS485 ports		2 independent ports (multi-device communication)		
Monitoring		High-precision string-level monitoring with smart I-V curve scanning; one-scan access to the cloud monitoring platform, with remote upgrade and settings		
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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