

INVERTERS

GCI-3P(5-25)K-5G-PLUS

String inverter · Three-phase · 5 – 25 kW · 11 models


5 – 25 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.3 – 98.5 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	1100
Rated PV input voltage	V	600
Start-up voltage	V	180
MPPT voltage range	V	160 – 1000
Number of MPPT trackers		2
AC output		
Rated AC voltage	V	380
Grid connection type		3/N/PE
Phase		Three-phase
Rated AC frequency	Hz	50
Power factor		>0.99 (0.8 leading to 0.8 lagging)
Total harmonic distortion (THDi)	%	<3
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)
General data		
Dimensions (W x H x D)	mm	310 × 550 × 219
Topology		Transformerless
Night-time power consumption	W	<1
Operating temperature range	°C	–25 – 60
Relative humidity	%	0 – 100
Ingress protection (IP rating)		IP66

Parameter	Unit	Common to all models
Max. operating altitude	m	4000
DC connection		MC4 connector
AC connection		OT terminal
AC wiring compatibility		25 mm ² aluminium cable
Communication		
Display		LED indicators
Communication interfaces		RS485 (2 independent ports); GPRS; 4G
Monitoring		Bluetooth + app; 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

Parameter	Unit	GCI-3P5K-5G-PLUS	GCI-3P6K-5G-PLUS	GCI-3P8K-5G-PLUS	GCI-3P10K-5G-PLUS	GCI-3P12K-5G-PLUS	GCI-3P13K-5G-PLUS
PV input							
Max. PV input power	W	6000	7200	9600	12000	14500	15000
Max. input current per MPPT	A	20					32
Max. short-circuit current per MPPT	A	25					50
PV strings per MPPT		1					2
Max. PV input current by MPPT tracker	A	20 / 18					32 / 20
Max. PV short-circuit current by MPPT tracker	A	25 / 25					50 / 25
Max. number of input strings		2					3
AC output							
Rated output power	W	5000	6000	8000	10000	12000	13000
Max. apparent power	VA	5500	6600	8800	11000	13200	14300
Max. active power	W	5500	6600	8800	11000	13200	14300
Rated AC output current	A	7.6	9.1	12.2	15.2	18.2	19.8
Max. AC output current	A	8.4	10	13.4	16.7	20.1	21.7
Efficiency							
Max. efficiency	%	98.3		98.4			
China efficiency	%	97.7		97.9		98.0	
General data							
Weight	kg	16.5		17.1			18.4
Noise level	dB	<30					
Cooling		Natural cooling					

Parameter	Unit	GCI-3P15K-5G-PLUS	GCI-3P17K-5G-PLUS	GCI-3P20K-5G-PLUS	GCI-3P23K-5G-PLUS	GCI-3P25K-5G-PLUS
PV input						
Max. PV input power	W	18000	20400	24000	28000	30000
Max. input current per MPPT	A	32			40	
Max. short-circuit current per MPPT	A	50				
PV strings per MPPT		2				
Max. PV input current by MPPT tracker	A	32 / 20	32 / 32		40 / 32	
Max. PV short-circuit current by MPPT tracker	A	50 / 25	50 / 50			
Max. number of input strings		3	4			
AC output						
Rated output power	W	15000	17000	20000	23000	25000
Max. apparent power	VA	16500	18700	22000	25300	27500
Max. active power	W	16500	18700	22000	25300	27500
Rated AC output current	A	22.8	25.8	30.4	34.9	38
Max. AC output current	A	25.1	28.4	33.5	38.4	41.8
Efficiency						
Max. efficiency	%	98.4	98.5			
China efficiency	%	98.0			98.1	
General data						
Weight	kg	18.4	20.4			
Noise level	dB	<30	<60			
Cooling		Natural cooling	Intelligent air cooling			

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

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