

RT-G Series

Single Phase / On-grid / 5–6 kW



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Max. PV Voltage up to 600 V
DC / AC Ratio up to 1.5
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Compatible for Big Capacity PV Panel
WiFi / 4G Plug Optional
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Type III DC SPD / Type III AC SPD
IP65 Protection
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High Efficiency up to 98.3%
Smaller and Lighter

MODEL	RT-G5KW-1P		RT-G6KW-1P
Input (DC)			
Max. DC Voltage	600 V		
Nominal Voltage	380 V		
Start Voltage e ⁸⁾	120 V	120 V	
MPPT Voltage Range	80 V ~ 560 V	80 V ~ 560 V	
Number of MPPT	2		
Strings Per MPPT	1		
Max. Input Current Per MPPT	15 A	15 A	
Max. Short-circuit Current Per MPPT	18 A	18 A	
Output (AC)			
Nominal AC Output Power	5000 W ²⁾	6000 W	
Max. AC Apparent Power	5500 V A ⁴⁾	6000 VA	
Nominal AC Voltage	230 V L-N		
AC Grid Frequency Range	50Hz / 60Hz ±5Hz		
Max. Output Current	24 A ⁶⁾	26 A	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging		
THDi	< 3%		
Efficiency			
Max. Efficiency	98.3%	98.3%	
Euro Efficiency	97.9%	97.9%	
Protection devices			
DC Switch	Yes		
Anti-islanding Protection	Yes		
Output Over Current Protection	Yes		
DC Reverse Polarity Protection	Yes		
DC / AC Surge Protection	DC Type III; AC Type III		
Insulation Detection	Yes		
AC Short Circuit Protection	Yes		
General Specifications			
Dimensions (W x H x D)	380 x 380 x 150 mm		
Weight	11 kg	11 kg	
Operating Temperature Range	-25°C ~+ 60°C		
Cooling Type	Natural convection		
Max. Operating Altitude	≤ 4000 m		
Max. Operating Humidity	0 - 100%		
AC Output Terminal Type	Quick Connector		
IP Class	IP65		
Topology	Transformerless		
Communication	RS-485 / WIFI / 4G		
Display	LCD / Bluetooth + App		
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; VDE 0126-1-1; CEI 0-21; G98/G99; C10/11; UNE 217001; UNE 217002; NB/T 32004-2018; GB/T 19964-2012; INMETRO ⁷⁾		

1) The maximum current of PV1 is 26 A, So PV1 can be expanded into two Strings by using Y-connectors.

2) Nominal AC output power is 4999 W for Australia and 4600 W for Germany and South Africa.

3) Max. AC apparent power is 3680 VA for the UK.

4) Max. AC apparent power is 4999 VA for Australia, 5000 VA for Belgium and 4600 VA for Germany and South Africa.

5) Maximum output current is 16 A for England.

6) Maximum output current is 21.7 A for Australia and 20 A for Germany and South Africa.

7) For BluE-G 8000D: EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; INMETRO.

8) Minimum voltage for inverter to start power output.