

Joint

@ Sustainable Energy

Residential

JOINT | R-ESS Series

Single Phase / All-in-one Hybrid System / 3.68-6 kW



Key features and benefits

Save Your Energy Bill

- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Smart Home Energy

- Supports Self Consumption, Peak Shaving, Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

High Performance

- DC / AC ratio up to 2
- Long battery cycle life

Easy Installation

- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart O&M

- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Flexible Expansion

- Supports both on-grid and off-grid parallel configurations
- Max. 4 battery packs per system

Battery Model	
General Parameters	
Battery Type	LFP (LiFePO4)
Cell Brand	EVE / CATL(optional)
Energy Capacity	5.12 kWh ²⁾
Usable Capacity	4.6 kWh ³⁾
Max.Depth of Discharge	100%
Norminal Voltage	51.2 V
Operating Voltage Range	44.8 ~ 57.6 V
Battery Pack Round-Trip Efficiency	> 94%
Weight	51 kg / 55.9 kg
Dimensions (W x H x D)	725 x 370 x 165 mm (PF1) 725 x 350 x 220 mm (PF3)
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance
Certificate	
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell: IEC/EN 62619; UN38.3; UL1973

RESS40100PF1-G2 / RESS48100PF3-G2 ¹⁾	
Operation	
Max. Continuous Charging Current	50 A (single battery pack)
Max. Continuous Charging Power	2825 W
Max. Continuous Discharging Current	80 A (single battery pack)
Max. Continuous Discharging Power	4096 W
Operating Temperature Range	-10 to 50 °C (Charging); -10 to 50 °C (Discharging) ⁴⁾
Cooling Type	Natural Cooling
Humidity	0~95% (no condensation)
BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement

1) Refer to two models of battery pack: RESS48100PF1-G2 (EVE cell) and RESS48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50 °C (Charging), -10 to 50 °C (Discharging).
5) Max. AC continuous output power is 4999 W for Australia and 4600 W for Germany and South Africa.
6) Max. AC apparent output power is 4999 VA for Australia and 4600 VA for Germany and South Africa
7) Max. output current is 21.7 A for Australia and 20 A for Germany and South Africa.

Product Specifications	JE3.68KJ-D22	JE5KJ-D22	JE6KJ-D22
PV Side			
Recommended Max.PV Array	7.2 kW	10 kW	10 kW
Input Power @STC			
Max PV Voltage		500 V	
Nominal Voltage		360 V	
MPPT Voltage Range		120 ~ 480 V	
MPPT Voltage Range with Full Load	200 ~ 425 V	250 ~ 425 V	250 ~ 425 V
Start Voltage ¹⁾		120 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	3680 W	5000 W ⁵⁾	6000 W
Max. AC Apparent Output Power	3680 VA	5000 VA ⁶⁾	6000 VA
Max. Continuous Input Power	7360 W	9200 W	9200 W
Nominal AC Voltage		230 Vac	
Normalal Frequency		50 Hz / 60 Hz (±5 Hz)	
Normalal Output Current	16 A	21.7 A	26.1 A ²⁾
Max. Output Current	16.7 A	22.7 A ⁷⁾	27.3 A ²⁾
Max. Input Current	32 A	40 A	40 A
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Normalal AC Output Power	3680 W	5000 W	6000 W
Max. AC Output Power	3680 VA	5000 VA	6000 VA
Max. Output Current	16 A	21.7 A	26.1 A
Normalal Output Voltage		230 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		< 3% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		48 V	
Charging Voltage Range		42 ~ 58 V	
Max. Charging / Discharging Current	80 A / 80 A	120 A / 120 A	125 A / 125 A
Rated Charging / Discharging Power	3600 W / 3900 W	5000 W / 5400 W	6000 W / 6400 W
Battery Capacity		100 ~ 400 Ah	
Efficiency			
Max. PV Efficiency		97.2%	
Euro. Efficiency	95.9%	96.4%	96.5%
Protection			
DC Switch		Integrated	
Anti-islanding Protection		Integrated	
Residual Current Monitoring		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 390 × 230 mm	
Weight	24.8 kg	25.5 kg	25.5 kg
Operating Temperature Range		-25°C to + 60°C (> 45°C derating)	
Cooling Type		Natural Convection	
Max. Operation Altitude		≤ 4000 m	
Operation Humidity		0 ~ 95% (no condensation)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; G98/G99; NC RfG:2018; C10/C11; CEI-021	

1) Minimum voltage for inverter to start power output.
2) Nominal Output current and Maximum output current is 25A for Ireland

Residential

JOINT | R-ESS Series

Three Phase / All-in-one Hybrid System / 4-6 kW



Key features and benefits

Battery Model	
General Parameters	
Battery Type	LFP (LiFePO4)
Cell Brand	EVE / CATL(optional)
Energy Capacity	5.12 kWh ²⁾
Usable Capacity	4.6 kWh ³⁾
Max.Depth of Discharge	100%
Norminal Voltage	51.2 V
Operating Voltage Range	44.8 ~ 57.6 V
Battery Pack Round-Trip Efficiency	> 94%
Weight	51 kg / 55.9 kg
Dimensions (W x H x D)	725 x 370 x 165 mm (PF1) 725 x 350 x 220 mm (PF3)
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance
Certificate	
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell: IEC/EN 62619; UN38.3; UL1973

RESS40100PF1-G2 / RESS48100PF3-G2 ¹⁾	
Operation	
Max. Continuous Charging Current	50 A (single battery pack)
Max. Continuous Charging Power	2825 W
Max. Continuous Discharging Current	80 A (single battery pack)
Max. Continuous Discharging Power	4096 W
Operating Temperature Range	-10 to 50 °C (Charging); -10 to 50 °C (Discharging) ⁴⁾
Cooling Type	Natural Cooling
Humidity	0~95% (no condensation)
BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement

1) Refer to two models of battery pack: RESS48100PF1-G2 (EVE cell) and RESS48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function,the operating temperature range will be: 0 to 50 °C (Charging), -10 to 50 °C (Discharging).

Save Your Energy Bill

- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Smart Home Energy

- Supports Self Consumption, Peak Shaving,Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

High Performance

- DC / AC ratio up to 2
- Long battery cycle life
- 100% three-phase unbalanced output

Easy Installation

- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart O&M

- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Flexible Expansion

- Supports both on-grid and off-grid parallel configurations
- Max. 4 battery packs per system

Product Specifications	JE4KT-D22	JE5KT-D22	JE6KT-D22
PV Side			
Recommended Max.PV Array	10 kW	11kW	12 kW
Input Power @STC			
Max PV Voltage		1000 V	
Nominal Voltage		720 V	
MPPT Voltage Range		140 ~ 950 V	
MPPT Voltage Range with Full Load	200 ~ 800 V	230 ~ 800 V	250 ~ 800 V
Start Voltage ¹⁾		200 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	4000 W	5000 W	6000 W
Max. AC Apparent Output Power	4400 VA	5500 VA	6000 VA
Max. Continuous Input Power	10000 W	11000 W	12000 W
Nominal AC Voltage		400 Vac	
Normalal Frequency		50 Hz / 60 Hz (±5 Hz)	
Normalal Output Current	5.8 A	7.3 A	8.7 A
Max. Output Current	13.1 A	13.1 A	13.1 A
Max. Input Current	21.0 A	22.6 A	22.6 A
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Normalal AC Output Power	4000 W	5000 W	6000 W
Max. AC Output Power	4000 VA	5000 VA	6000 VA
Normalal Output Current	5.8 A	7.3 A	8.7 A
Max. Output Current	13.1 A	13.1 A	13.1 A
Normalal Output Voltage		400 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		2% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		51.2 V	
Charging Voltage Range		44 ~ 58 V	
Max. Charging / Discharging Current	100 A / 100 A	120 A / 120 A	120 A / 150 A
Rated Charging / Discharging Power	4000 W	5000 W	6000 W
Battery Capacity		100 ~ 800 Ah	
Efficiency			
Max. PV Efficiency		96.6 %	
Euro. Efficiency		94.5 %	
Protection			
DC Switch		Integrated	
Anti-Islanding-Protection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 490 × 245 mm	
Weight		40 kg	
Operating Temperature Range		-25°C to + 60°C (> 40°C derating)	
Cooling Type		Natural Convection	
Max. Operation Altitude		≤3000m	
Operation Humidity		0 ~ 95% (no condensation)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11	

1) Minimum voltage for inverter to start power output.



Residential

JOINT | R-ESS Series

Three Phase / All-in-one Hybrid System / 8–12 kW



Key features and benefits

Save Your Energy Bill

- Powered by CATL and EVE
- Human safe low-voltage solution
- Optional AFCI

Smart Home Energy

- Supports Self Consumption, Peak Shaving, Time-of-use, and Battery Priority operation modes
- SG Ready Heat Pump compatible

High Performance

- DC / AC ratio up to 2
- Long battery cycle life
- 100% three-phase unbalanced output

Easy Installation

- Stackable design, no wiring required
- Compact and space-saving
- IP66 rating for protection

Smart O&M

- 24 / 7 cloud monitoring
- Easy commissioning via Bluetooth
- Remote firmware upgrades

Flexible Expansion

- Supports both on-grid and off-grid parallel configurations
- Max. 8 battery packs per system

Battery Model	
General Parameters	
Battery Type	LFP (LiFePO4)
Cell Brand	EVE / CATL(optional)
Energy Capacity	5.12 kWh ²⁾
Usable Capacity	4.6 kWh ³⁾
Max.Depth of Discharge	100%
Norminal Voltage	51.2 V
Operating Voltage Range	44.8 ~ 57.6 V
Battery Pack Round-Trip Efficiency	> 94%
Weight	51 kg / 55.9 kg
Dimensions (W x H x D)	725 x 370 x 165 mm (PF1) 725 x 350 x 220 mm (PF3)
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance
Certificate	
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell: IEC/EN 62619; UN38.3; UL1973

RESS40100PF1-G2 / RESS48100PF3-G2 ¹⁾	
Operation	
Max. Continuous Charging Current	50 A (single battery pack)
Max. Continuous Charging Power	2825 W
Max. Continuous Discharging Current	80 A (single battery pack)
Max. Continuous Discharging Power	4096 W
Operating Temperature Range	-10 to 50 °C (Charging); -10 to 50 °C (Discharging) ⁴⁾
Cooling Type	Natural Cooling
Humidity	0~95% (no condensation)
BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement

1) Refer to two models of battery pack: RESS48100PF1-G2 (EVE cell) and RESS48100PF3-G2 (CATL cell).
2) Total Energy Capacity is tested under the following conditions: @25°C, 0.5C charging/0.5C discharging, at the beginning of life.
3) Usable Energy Capacity refers to the energy discharged from 100% to the minimum state of energy (SoE).
4) The operating temperature parameters only apply to battery pack models with heating function. For battery pack models without heating function, the operating temperature range will be: 0 to 50 °C (Charging), -10 to 50 °C (Discharging).
5) Minimum voltage for inverter to start power output.
6) According to the C10/11 of Synergrid, the maximum AC apparent output power is 10 kVA. The applicable hybrid inverter model is E10KTBE-D22.

Product Specifications	JE8KT-D22	JE10KT-D22	JE12KT-D22
PV Side			
Recommended Max.PV Array	16 kW	20 kW	22 kW
Input Power @STC			
Max PV Voltage		1000 V	
Nominal Voltage		720 V	
MPPT Voltage Range		140 ~ 950 V	
MPPT Voltage Range with Full Load	290 ~ 800 V	320 ~ 800 V	350 ~ 800 V
Start Voltage 5)		200 V	
Number of MPPT Tracker		2	
String per MPPT Tracker		1	
Max. Input Current per MPPT		20 A	
Max. Short-Circuit Current per MPPT		25 A	
AC Output & Input (Grid)			
Max. AC Continuous Output Power	8000 W	10000 W	12000 W
Max. AC Apparent Output Power	8800 VA	11000 VA ⁶⁾	13200 VA
Max. Continuous Input Power	16000 W	20000 W	22000 W
Nominal AC Voltage		400 Vac	
Normalal Frequency		50 Hz / 60 Hz (±5 Hz)	
Normalal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
Max. Input Current		35 A	
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	
AC Output (Backup)			
Normalal AC Output Power	8000 W	10000 W	12000 W
Max. AC Output Power	8000 VA	10000 VA	12000 VA
Normalal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
Normalal Output Voltage		400 Vac	
Nominal Output Frequency		50 Hz / 60 Hz	
Output THDv (@Linear Load)		2% (Linear Load)	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		51.2 V	
Charging Voltage Range		44 ~ 58 V	
Max. Charging / Discharging Current	100 A / 100 A	120 A / 120 A	120 A / 150 A
Rated Charging / Discharging Power	4000 W	5000 W	6000 W
Battery Capacity		100 ~ 800 Ah	
Efficiency			
Max. PV Efficiency		97.2 %	
Euro. Efficiency		95.5 %	
Protection			
DC Switch		Integrated	
Anti-Islanding-Protection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC / AC Surge Protection		DC Type II; AC Type III	
Remote Shutdown		Integrated	
AFCI		Optional	
General Specification			
Dimensions (W x H x D)		725 × 490 × 245 mm	
Weight		43 kg	
Operating Temperature Range		-25°C to + 60°C (> 40°C derating)	
Cooling Type		Intelligent Air Cooling	
Max. Operation Altitude		≤ 4000 m	
Operation Humidity		0 ~ 95% (No Convection)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS485 / WIFI / (4G / Ethernet optional)	
Display		LED+Bluetooth / APP / WEB	
Certification & Standard		IEC/EN62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11	



Residential

JOINT | **RG Series**

Single Phase / On-grid / 3–6 kW



Max. PV Voltage up to 550 V
Support High-current Bifacial Modules



DC / AC Ratio up to 1.5
AFCI Optional



Reactive Power Control
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.1%
Smaller and Lighter

Key features and benefits

MODEL	G3KJ-D11	G5KJ-D11	G5KJ-B21	G6KJ-D11	G6KJ-B21
Specifications					
Max. DC Power	4.5 kWp	7.5 kWp	7.5 kWp	9.0 kWp	9.0 kWp
Max. DC Voltage			550 V		
Nominal Voltage			360 V		
Start Voltage			80 V		
MPPT Voltage Range			60 ~ 550 V		
MPPT Voltage Range at Full Load	165 ~ 500 V	265 ~ 500 V	180 ~ 500 V	330 ~ 500 V	200 ~ 500 V
No. of MPPT	1	1	2	1	2
No. of Strings per MPPT	1	1	1	1	1
Number of Strings Input	1	1	2	1	2
Max. Input Current per MPPT	20 A	20 A	16 A*2	20 A	16 A*2
Max. Short-circuit Current per MPPT	30 A	30 A	25 A*2	30 A	25 A*2
Output (AC)					
Nominal AC Output Power	3000 W	5000 W	5000 W	6000 W	6000 W
Max. AC Apparent Power	3300 VA	5500 VA	5500 VA	6000 VA	6000 VA
Max. AC Output Power	3300 W	5500 W	5500 W	6000 W	6000 W
Nominal AC Voltage			220 V / 230 V		
AC Grid Frequency Range			50 Hz / 60 Hz (±5 Hz)		
Rated Output Current	13.7 A / 13.1 A	22.7 A / 21.7 A	22.7 A / 21.7 A	27.3 / 26 A	27.3 A / 26 A
Maximum Output Current	15 A	25 A	25 A	27.3 A	27.3 A
Power Factor (Φ)			-0.8 (Lagging) ~ 0.8 (Leading)		
THDi			< 3% (Nominal Power)		
Efficiency					
Max. Efficiency	97.5%	98.1%	98.1%	98.1%	98.1%
Euro Efficiency	97.0%	97.5%	97.5%	97.5%	97.5%
Protection Devices					
DC Switch			Yes		
Anti~islanding Protection			Yes		
Output Over Current			Yes		
DC Reverse Polarity Protection			Yes		
String Fault Detection			Yes		
Overvoltage Category			DC Type III / Type II Optional; AC Type III		
Insulation Detection			Yes		
AC Short Circuit Protection			Yes		
AFCI Protection			Optional		
General Specifications					
Dimensions (W x H x D)			395 x 315 x 140 mm		
Weight	7.6 kg	8.2 kg	9.5 kg	8.2 kg	9.5 kg
Operating Temperature Range			-25℃ ~ +60℃		
Cooling Type			Natural		
Max. Operating Altitude			≤ 4000 m		
Max. Operating Humidity			0 ~ 100%		
DC Input Terminal Type			Vaconn		
AC Output Terminal Type			Quick connector		
IP Class			IP66		
Topology			Transformerless		
Communication			RS-485*2 / WIFI / GPRS / Bluetooth		
Display			LCD / Bluetooth + App		
Certificates			IEC 62109~1/2; IEC 61000; IEC 60068; IEC 61727; IEC 62116; IEC 61683		



Residential

JOINT | **RG Series**

Single Phase / On-grid / 8-12 kW



Max. PV Voltage up to 600 V
Type II DC / Type III AC SPD



DC / AC Ratio up to 1.5
AFCI Optional



Reactive Power Control
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 97.5%
Smaller and Lighter

Key features and benefits

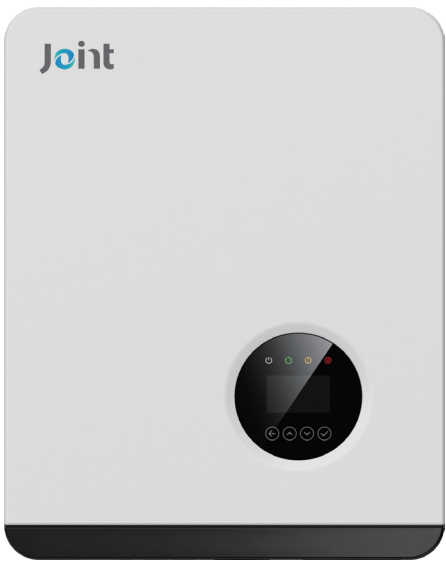
MODEL	RG8K1	RG10K1	RG12K1
Specifications			
Max. DC Power	12 kWp	15 kWp	18 kWp
Max. DC Voltage		600 V	
Nominal Voltage		360 V	
Start Voltage		80 V	
MPPT Voltage Range		60 ~ 550 V	
MPPT Voltage Range at Full Load	220 ~ 500 V	270 ~ 500 V	330 ~ 500 V
No. of MPPT		2	
No. of Strings per MPPT		1	
Number of Strings Input		2	
Max. Input Current per MPPT		20 A*2	
Max. Short-circuit Current per MPPT		30 A*2	
Output (AC)			
Nominal AC Output Power	8000 W	10000 W	12000 W
Max. AC Apparent Power	8000 VA	10000 VA	12000 VA
Max. AC Output Power	8000 W	10000 W	12000 W
Nominal AC Voltage		220 V / 230 V	
AC Grid Frequency Range		50 Hz / 60 Hz (±5 Hz)	
Rated Output Current	36.4 A / 34.8 A	45.5 A / 43.5 A	54.5 A / 52.2 A
Maximum Output Current	36.4 A	45.5 A	54.5 A
Power Factor (Φ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3% (Nominal Power)	
Efficiency			
Max. Efficiency		98.1%	
Euro Efficiency		97.5%	
Protection Devices			
DC Switch		Yes	
Anti-islanding Protection		Yes	
Output Over Current		Yes	
DC Reverse Polarity Protection		Yes	
String Fault Detection		Yes	
Overvoltage Category		DC Type III / Type II Optional; AC Type III	
Insulation Detection		Yes	
AC Short Circuit Protection		Yes	
AFCI Protection		Optional	
General Specifications			
Dimensions (W x H x D)	380 x 483 x 161 mm	380 x 483 x 161 mm	380 x 483 x 193 mm
Weight	14 kg	14.5 kg	17.5 kg
Operating Temperature Range		-25 C ~ +60 C	
Cooling Type		Natural	
Max. Operating Altitude		≤ 4000 m	
Max. Operating Humidity		0 ~ 100%	
DC Input Terminal Type		Vaconn	
IP Class		IP66	
Topology		Transformerless	
Communication		RS-485 / WIFI / GPRS / Bluetooth	
Display		LCD / Bluetooth + App	
Certificates	IEC 62109-1/2; IEC 61000; IEC 60068; IEC 61727; IEC 62116; IEC 61683		



Residential

JOINT | **RG Series**

Three Phase / On-grid / 10–25 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



DC / AC Ratio up to 1.3
IP66 Protection



Compatible for Big Capacity PV Panel
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.6%
Smaller and Lighter

Key features and benefits

MODEL	RG-10KT-M6	RG-12KT-M6	RG-15KT-M6	RG-20KT-M6	RG-25KT-M6
Specifications					
Recommended Max. PV Array Input Power @STC	13 kW	15.6 kW	19.5 kW	26 kW	32.5 kW
Max. DC Voltage	1100 V				
Nominal Voltage	650 V				
Start Voltage	250 V				
MPPT Voltage Range	140 ~ 1000 V	140 ~ 1000 V	140 ~ 1000 V	140 ~ 1000 V	200 ~ 1000 V
MPPT Voltage Range (Full load)	420 ~ 850 V	420 ~ 850 V	420 ~ 850 V	480 ~ 850 V	480 ~ 850 V
Number of MPPT	2				
Max.Number of String per MPPT	1	1	1	2	2
Max. Input Current per MPPT	20 A	20 A	20 A	32 A	40 A / 32 A
Max. Short-circuit Current per MPPT	30 A	30 A	30 A	50 A	60 A / 50 A
Output (AC)					
Nominal AC Output Power	10000 W	12000 W	15000 W	20000 W	25000 W
Max. AC Output apparent Power	11000 VA	13200 VA	16500 VA	22000 VA	27500 VA
Max. AC Output active Power	11000 W	13200 W	16500 W	22000 W	27500 W
Nominal Voltage	400 V / 230 V, 3P+N+PE				
AC Grid Frequency Range	50 Hz / 60 Hz				
Max. Output Current	16 A	19.2 A	23.9 A	31.9 A	39.9 A
Power Factor (Φ)	-0.8 (Lagging) ~ 0.8 (Leading)				
THDi	< 3% (Nominal Power)				
Efficiency					
Max. Efficiency	98.3%	98.3%	98.3%	98.6%	98.6%
Euro Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%
Protection devices					
DC Switch	Yes				
Output Over Current Protection	Yes				
Anti-islanding Protection	Yes				
DC Reverse Polarity Protection	Yes				
Insulation Detection	Yes				
DC / AC Surge Protection	DC Type II; AC Type III; Type II Optional				
Residual Current Monitoring	Yes				
AFCI	Optional				
General Specifications					
Dimensions (W x H x D)	380 x 483 x 161 mm	380 x 483 x 161 mm	380 x 483 x 193 mm	380 x 483 x 193 mm	380 x 483 x 223 mm
Weight	16 kg	16 kg	18.8 kg	18.8 kg	19.6 kg
Operating Temperature Range	-25℃ ~ +60℃				
Cooling Type	Natural cooling	Natural cooling	Natural cooling	Fan cooling	Fan cooling
Max. Operating Altitude	4000 m (> 3000 m derating)				
Max. Operating Humidity	0 ~ 100%				
AC Output Terminal Type	OT				
IP Class	IP66				
Topology	Transformerless				
PV Input Terminal Type	MC4				
Display	LCD				
Certification & Standard	EN/IEC 62109~1; EN/IEC 62109~2; IEC/EN 61000~6~1; IEC/EN 61000~6~3; IEC/EN 61000~6~2; IEC/EN 61000~6 4; IEC 61683; IEC 60068; IEC 62116; IEC61727;				

