

PRODUCT : **RV108GGSM**  
 PRODUCT RANGE : **395 - 415W**

RENEVOLT is a PV module manufacturing company, dedicated to provide customers dependable, affordable solar power. Our production line is sourced from ECOPROGETTI in Italy. Every piece of machinery in the production line has been upgraded to ensure higher output and constant output quality. The anticipated 200 MW facility will create crystalline PV modules that are incredibly reliable and efficient. Silicon technology with cell sizes ranging from 166 mm to 210 mm is used for multi-busbar panels. Using half-cut and one-third-cut cell technologies, the facility has the ability to produce Poly, mono-PERC, and TOPCON cells modules with power outputs ranging from 100 to 670 watt .

**415W**

MAXIMUM POWER OUTPUT

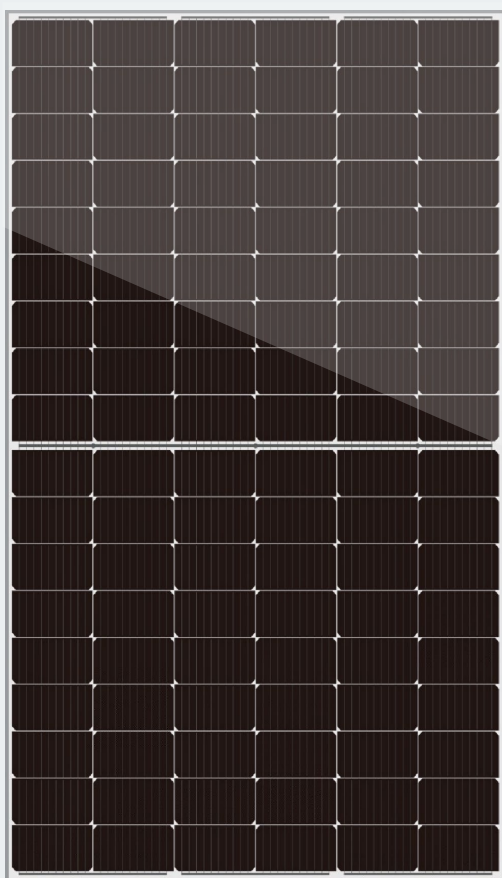
**0~+5W**

POSITIVE POWER TOLERANCE

**21.3%**

MAXIMUM EFFICIENCY

## DUAL GLASS 108 HALF CUT BIFACIAL SOLAR PV MODULE



### RENEVOLT ADVANTAGES



**MADE IN UAE**

Premium products 100% made in the Emirates.



**A RELIABLE INVESTMENT**

Products up to 670Wp, 25-Years of performance warranty.



**ENCOURAGING INNOVATION**

Innovative, prestigious, European production technology

### KEY FEATURES



**LOW SYSTEM COST**

Higher yield per surface area, lower BOS costs higher power classes, and an efficiency rate of up to 22%.



**EXTREME WEATHER RATING**

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



**ADVANCED MODULE TECHNOLOGY**

ANTUM DUO combines cutting edge cell separation and innovative up to 16-busbar design with Q.ANTUM Technology.



**ALL-WEATHER TECHNOLOGY Optimal**

Yields, whatever the weather with low-light and temperature behaviour.



**100% EL inline inspection**

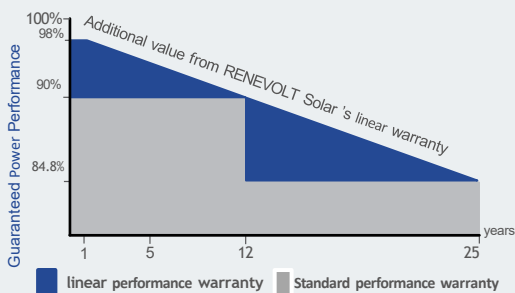
Better module reliability



**ENDURING HIGH PERFORMANCE**

Anti LID and Anti PID Technology. Under long-term production safety conditions, the limited power degradation caused by PID effect is guaranteed.

### LINEAR PERFORMANCE WARRANTY



Product warranty  
**12**  
Years

Output warranty  
**25**  
Years

### THE IDEAL SOLUTION FOR



Residential



Commercial



Off-Grid



Utility

### INTERNATIONAL & NATIONAL CERTIFICATIONS



# RV108GGSM395-415W

## ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

### ELECTRICAL CHARACTERISTICS (STC/NOCT)

Models	Maximum Rating Power (Pmax) (W)		Open Circuit Voltage (Voc) (V)		Maximum Power Voltage (Vmp) (V)		Short Circuit Current (Isc) (A)		Maximum Power Current (Imp) (A)		Module Efficiency (%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC
RV108GGSM395	395	291	37.49	35.03	33.10	30.71	12.54	10.00	11.94	9.46	20.23
RV108GGSM400	400	294	37.53	35.07	33.14	30.75	12.68	10.11	12.08	9.57	20.48
RV108GGSM405	405	298	37.57	35.10	33.18	30.79	12.83	10.23	12.22	9.68	20.74
RV108GGSM410	410	302	37.61	35.14	33.22	30.81	12.97	10.34	12.35	9.79	21.00
RV108GGSM415	415	305	37.70	35.18	33.26	30.86	13.10	10.44	12.48	9.89	21.25

\*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5, Nominal module operating temperature (NMOT): Air mass AM 1.5, Irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s. Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3.5 ± 2% \*Values without tolerance are typical numbers. Measurement tolerance: ± 3%

### BI-FACIAL OUTPUT - BACKSIDE POWER GAIN

		RV108GGSM395	RV108GGSM400	RV108GGSM405	RV108GGSM410	RV108GGSM415
		15%	Power Output (W)	454	460	466
	Module Efficiency (%)	23.3%	23.6%	23.9%	24.1%	24.4%
20%	Power Output (W)	474	480	486	492	498
	Module Efficiency (%)	24.3%	24.6%	24.9%	25.2%	25.5%
25%	Power Output (W)	494	500	506	513	519
	Module Efficiency (%)	25.3%	25.6%	25.9%	26.2%	26.6%
30%	Power Output (W)	514	520	527	533	540
	Module Efficiency (%)	26.3%	26.6%	27.0%	27.3%	27.6%

### MECHANICAL DATA

Solar Cell	Monocrystalline silicon 182 x 91 mm M10 ,10BB bifacial
No.of cells	108 (6x18)
Dimensions	1722 mm x 1134 mm x 35 mm 67.80" in x 44.65" in x 1.38" in
Weight	24.0 kg / 52.91 lbs.(±3%)
Front Glass	2 mm, High Transmission, Low Iron, Tempered ARC Glass
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Glass	2.0mm, Heat strengthened glass
Frame	Silver Anodized Aluminum Alloy Type 6063T5 , Silver Color
Junction Box	IP68, 1500VDC, 3 Bypass Diodes
Connectors Type	IP68 MC4 Compatible
Cable	400mm (cable length can be customized), 4mm <sup>2</sup>
Package Configuration	31 pcs Per Pallet, 806 pcs per 40' FT container ( Two pallets=One stack )

### OPERATING CONDITION

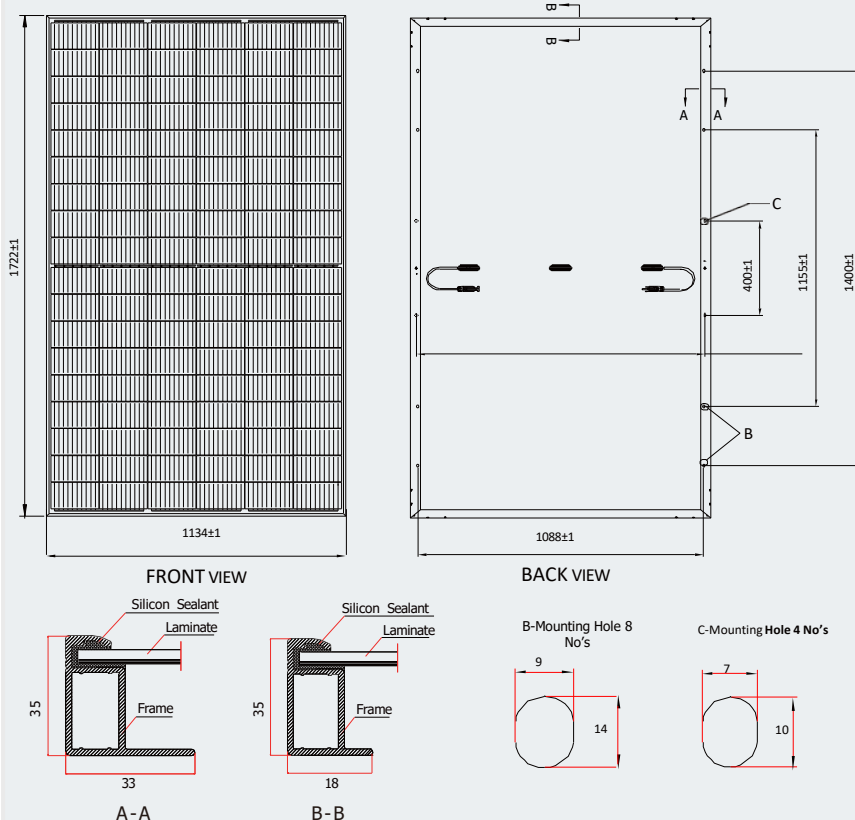
Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 70 °C
Safety application class	Class II
Fire Rating	Class C

### TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.050 % / °C
Temperature Coefficient of Voc	-0.26 % / °C
Temperature Coefficient of Pmax	-0.34 % / °C

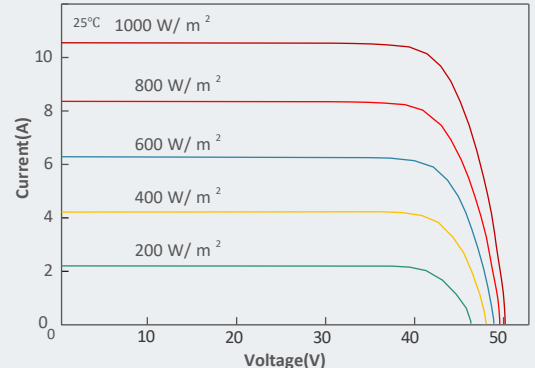
<sup>1</sup> : With assembly tolerance of ± 2 mm [ ± 0.08" ], <sup>2</sup> : With assembly tolerance of ± 0.8 mm [ ± 0.03" ]

### DIMENSIONS OF PV MODULE (mm)

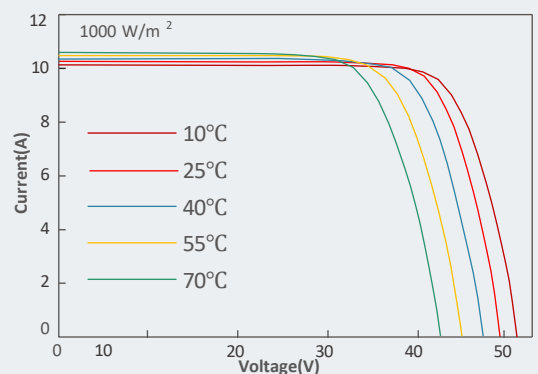


### IV-CURVES

#### CURRENT-VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE



#### CURRENT-VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES



The Graphs are for reference purpose only. Please consult Renevolt technical team for further clarifications.

- ❖ The electrical data given here is for reference purpose only.
- ❖ Please confirm your exact requirements with the sales representative while placing your order.
- ❖ Refer installation Manual instructions & Renevolt warranty statement for terms & conditions.
- ❖ Renevolt Reserves the right to change the specifications without prior notice.

