

PRODUCT : **RV132GGSM**
 PRODUCT RANGE : **645 - 665W**

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 .

665W

MAXIMUM POWER OUTPUT

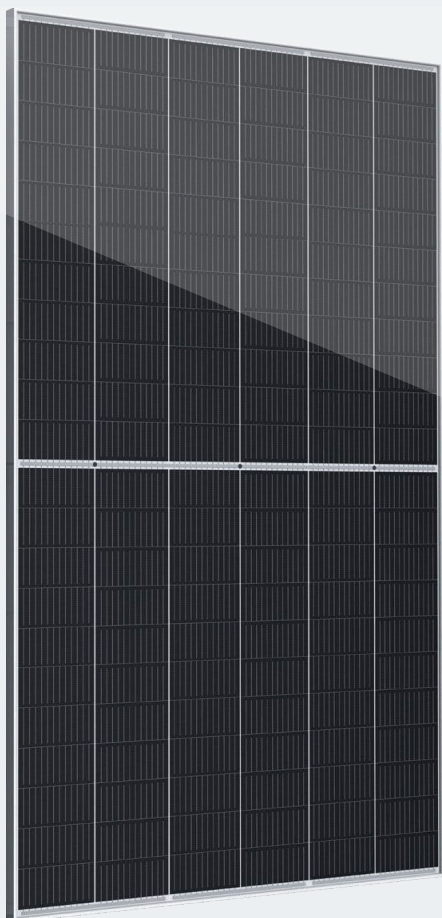
0~+5W

POSITIVE POWER TOLERANCE

21.3%

MAXIMUM EFFICIENCY

DUAL GLASS 132 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.

THE IDEAL SOLUTION FOR



Residential



Commercial



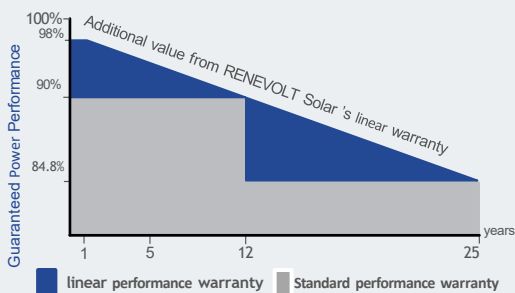
Off-Grid



Utility

INTERNATIONAL & NATIONAL CERTIFICATIONS

LINEAR PERFORMANCE WARRANTY



Product warranty
12
Years

Output warranty
25
Years



RV132GGSM645-660W

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 (nm)(%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC
RV132GGSM645	645	485.2	45.94	43.20	37.87	35.70	17.78	14.33	17.04	13.58	20.63
RV132GGSM650	650	489.5	46.09	43.40	37.91	35.90	17.84	14.37	17.16	13.63	20.79
RV132GGSM655	655	494.2	46.26	43.50	37.94	36.10	17.90	14.42	17.29	13.69	21.95
RV132GGSM660	660	497.3	46.40	42.60	38.06	36.20	17.98	14.49	17.35	13.75	21.11
RV132GGSM665	665	501.7	46.58	42.80	38.10	36.40	18.03	14.53	17.46	13.79	21.27

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5, Nominal module operating temperature (NMOT): Air mass AM 1.5, Irradiance 800W/m², temperature 20°C, windspeed 1 m/s. Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3.5 ± 2% *Values without tolerance are typical numbers. Measurement tolerance: ± 3%

BI-FACIAL OUTPUT - BACKSIDE POWER GAIN

		RV132GGSM645	RV132GGSM650	RV132GGSM655	RV132GGSM660	RV132GGSM665
15%	Power Output (W)	742	748	753	759	765
	Module Efficiency (%)	23.7%	23.9%	24.1%	24.3%	24.5%
20%	Power Output (W)	774	780	786	792	798
	Module Efficiency (%)	24.8%	24.9%	25.1%	25.3%	25.5%
25%	Power Output (W)	806	813	819	825	831
	Module Efficiency (%)	25.8%	26.0%	26.2%	26.4%	26.6%
30%	Power Output (W)	839	845	852	858	865
	Module Efficiency (%)	26.8%	27.0%	27.2%	27.4%	27.6%

MECHANICAL DATA

Solar Cell	Monocrystalline silicon 210 x 105 mm,12BB
No.of cells	132 (6×22)
Dimensions	2400 mm x 1303 mm x 35 mm 94.49" in x 51.26" in x 1.38" in
Weight	39 kg / 85.98 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 , Silver Color
Junction Box	IP68, 1500VDC, 3 Bypass Diodes
Connectors Type	IP68 MC4 Compatible
Cable	400mm (cable length can be customized), 4mm ²
Package Configuration	31 pcs Per Pallet, 558 pcs per 40' FT container (Two pallets=One stack)

OPERATING CONDITION

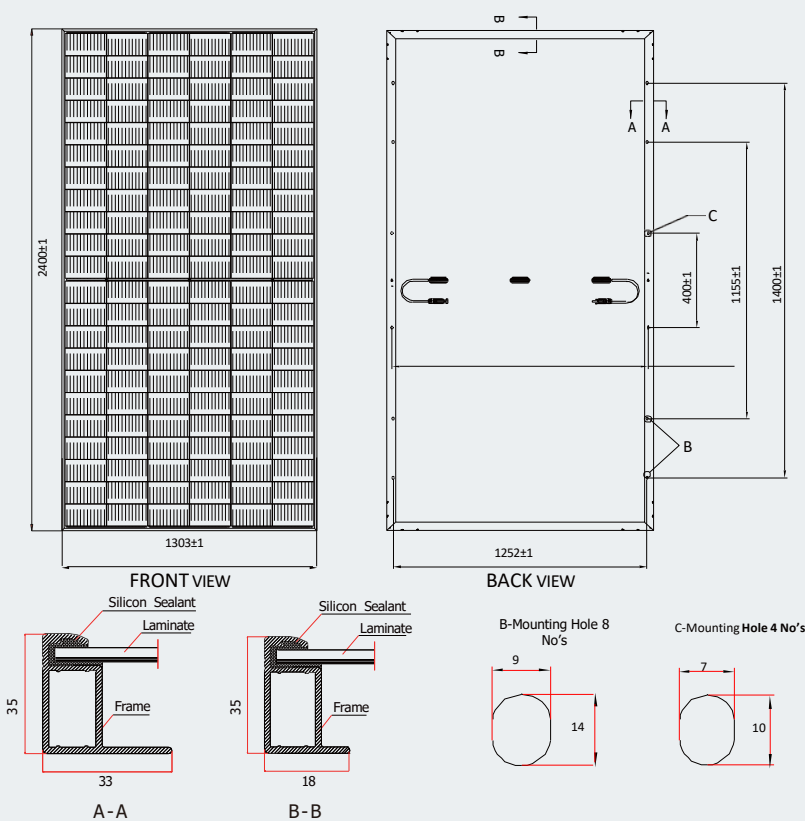
Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	30 A
Operating Temperature	-40 to 70 °C
Safety application class	Class II
Fire Rating	Class C

TEMPERATURE CHARECTORISTICS

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

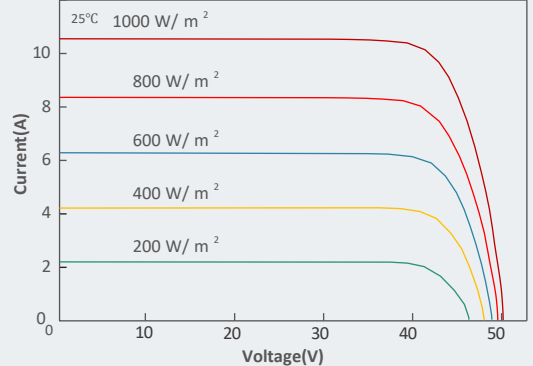
¹ : With assembly tolerance of ± 2 mm [± 0.08"], ² : With assembly tolerance of ± 0.8 mm [± 0.03"]

DIMENSIONS OF PV MODULE (mm)

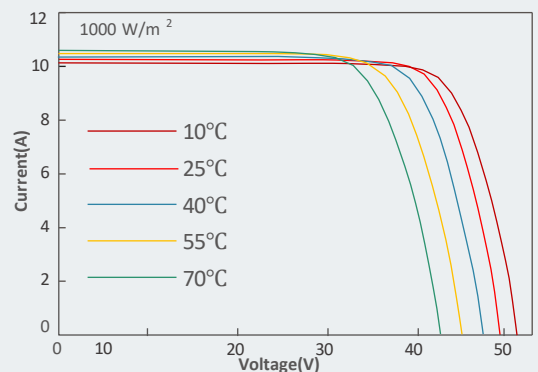


IV-CURVES

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.

