MONO / POLY

PRODUCT : **RV144GWSM**
PRODUCT RANGE : **535-555W**

RENEVOLT
ENERGY FOR FUTURE

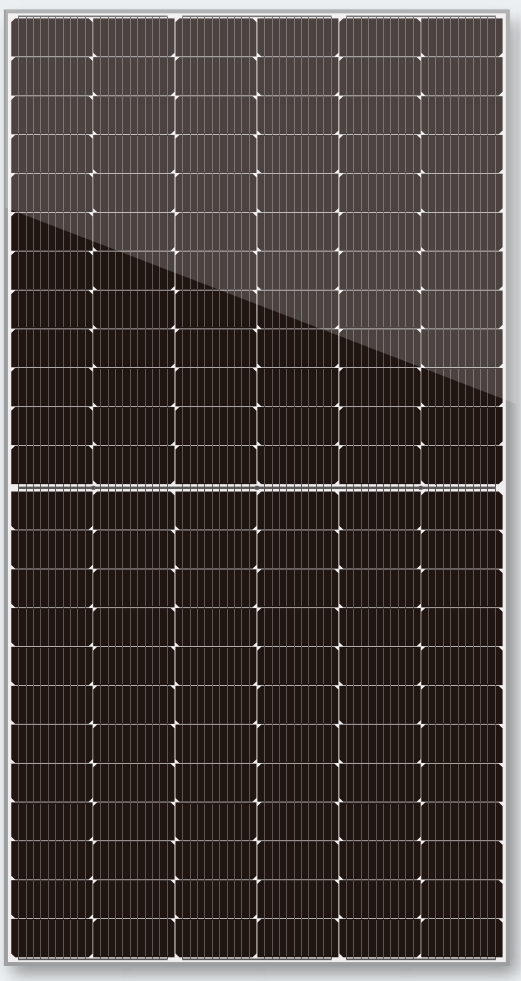
RENEVOLT is a PV module manufacturing company, dedicated to provide customers dependable, affordable solar power. Our production line is sourced from ECOPROGETTI in Italy. Every piece of machinery in the production line has been upgraded to ensure higher output and constant output quality. The anticipated 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 .

555W
MAXIMUM POWER OUTPUT

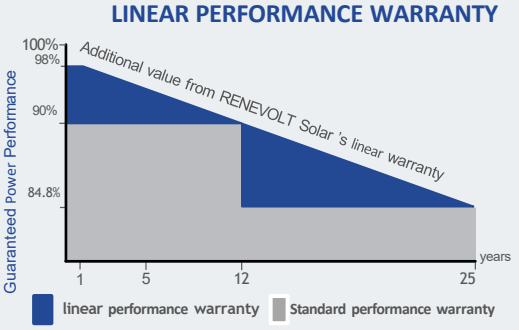
0~+5W
POSITIVE POWER TOLERANCE

21.5%
MAXIMUM EFFICIENCY

MONO FACIAL 144 HALF CUT SOLAR PV MODULE



LINEAR PERFORMANCE WARRANTY



Product warranty **12 Years**

Output warranty **25 Years**

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

SolarX FZ LLC, Al Hamra Industrial Zone-FZ, Shed No. F10,WFZ10-13, RAK, United Arab Emirates,
P.O BOX: 321690,Tel: +9717236 7203

For more information, please visit us at ***www.solarxfz.com***

RV144GWSM535-555W

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

RENEVOLT
ENERGY FOR FUTURE

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 (EFF)(%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
RV144GWSM535	535	405	49.45	46.31	41.55	38.78	13.80	11.05	12.88	10.44	20.71%
RV144GWSM540	540	408	49.60	46.43	41.65	38.99	13.85	11.09	12.97	10.47	20.90%
RV144GWSM545	545	412	49.75	46.55	41.80	39.20	13.92	11.13	13.04	10.51	21.10%
RV144GWSM550	550	416	49.90	46.67	41.95	39.43	13.98	11.17	13.12	10.55	21.29%
RV144GWSM555	555	420	50.05	46.79	42.17	39.66	14.05	11.21	13.17	10.59	21.48%

*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%

MECHANICAL DATA

Solar Cell	Monocrystalline silicon 182 x 91 mm M10 ,10BB
No.of cells	144 (6×24)
Dimensions	2278 mm x 1134 mm x 35 mm 89.69" x 44.65" x 1.38" inch
Weight	28 kg / 61.73 lbs.(±3%)
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back sheet	White Backsheet
Frame	Silver Anodized Aluminum Alloy Type 6005T6 , Silver Color
Junction Box	IP68, 1500VDC, 3 Bypass Diodes
Connectors Type	IP68 MC4 Compatible
Cable	400mm (cable length can be customized), 4mm²
Package Configuration	31 pcs Per Pallet, 620 pcs per 40' FT container (Two pallets=One stack)

OPERATING CONDITION

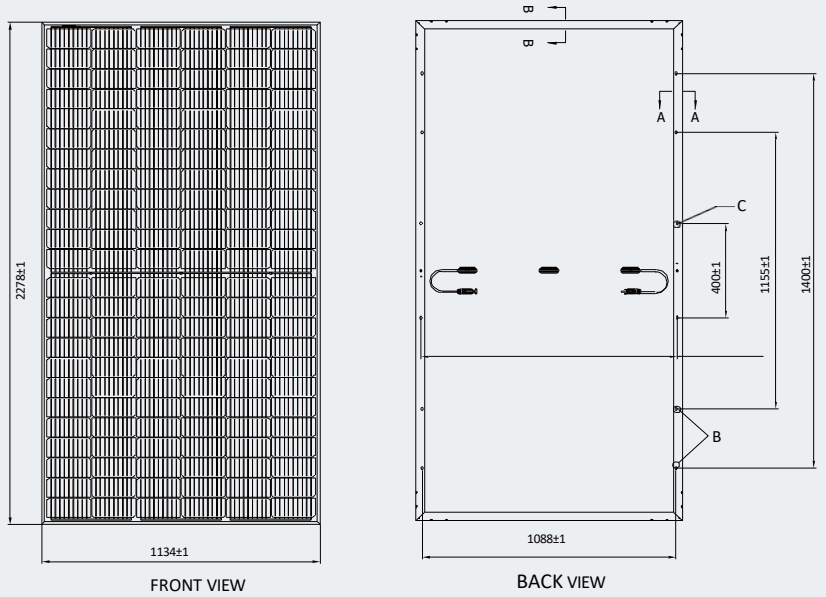
Mechanical Load	5400 Pa
Maximum System Voltage	1500VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 70 °C
Safety application class	Class II
Fire Rating	Class C

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

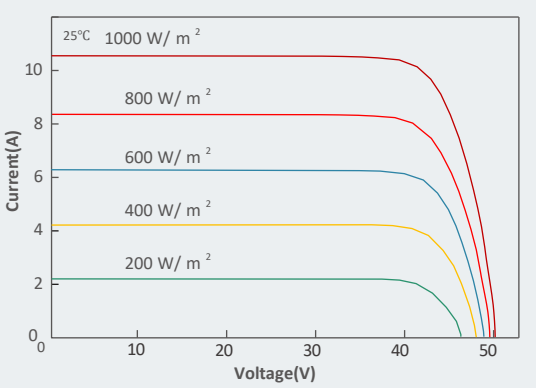
¹ : With assembly tolerance of ± 2 mm [± 0.08"], ² : With assembly tolerance of ± 0.8 mm [± 0.03"]

DIMENSIONS OF PV MODULE (mm)

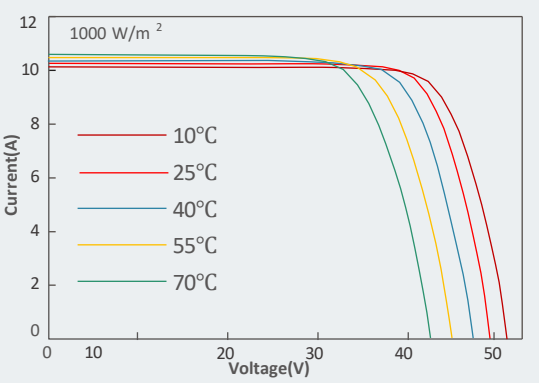


IV-CURVES

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.

SolarX

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