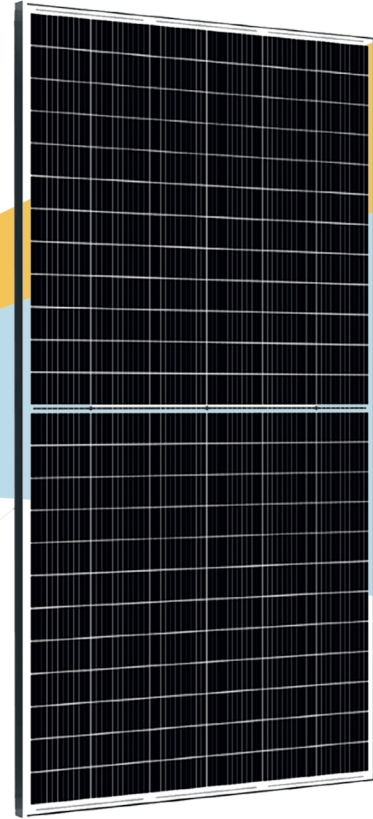


PV POWER EVVO BIFACIAL

EVVO PV Power's photovoltaic (PV) modules establish a standard of excellence in terms of dependable energy generation, efficient design, and environmental sustainability. The EVVO Modules are specifically engineered to maximize area efficiency, ensuring optimal utilization of available space.

SOLAR MODULES
MONO PERC 10BB
540-550 Wp
Bifacial G2G IR Series



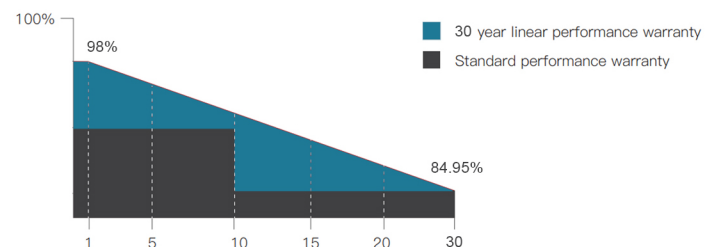
PRODUCT | KEY FEATURES

-  Anti-Reflective (AR) Coated Glass for Enhanced Power
-  Excellent Module Efficiency with Bifacial Power Gain
-  Positive Power Tolerance with Current Binning to Prevent Mismatch Losses
-  Pre and Post EL Checking With High Resolution Camera
-  IP68 Junction Box for Long Term Endurance
-  100% Hi-Pot Testing to Ensure Safety
-  MBB Half-Cell Technology provides Better Performance under Partial Shading

THE INDUSTRY'S BENCHMARK

EVVO Solar is a globally recognized and highly regarded provider of cost-effective solar energy solutions. With expertise in manufacturing high-efficiency PV modules and offering comprehensive EPC (Engineering, Procurement, and Construction) solutions, EVVO Solar stands out in the industry. EVVO PV modules are renowned for their exceptional power output and long-term reliability, making them a top choice for customers seeking the best-in-class solar modules.

LINEAR PERFORMANCE WARRANTY



MANUFACTURING UNIT:
INDIA, CHINA

www.evvosolar.com

Connect with:
+91 94943 55000
sales@evvosolar.com

THINK SOLAR
THINK 25 YEARS
THINK EVVO

TECHNICAL DATA

ELECTRICAL DATA(STC)

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 44.28 ± 2 °C]

ELECTRICAL CHARACTERISTICS*	EVVO 540WC		EVVO 545WC		EVVO 550WC	
	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	540 W	400 W	545 W	403 W	550 W	407 W
Optimum Operating Voltage (Vmp)	41.86 V	38.54 V	42.01 V	38.68 V	42.14 V	38.80 V
Optimum Operating Current (Imp)	12.91 A	10.37 A	12.98 A	10.43 A	13.07 A	10.49 A
Open Circuit Voltage (Voc)	49.78 V	46.82 V	49.91 V	46.94 V	50.06 V	47.09 V
Short Circuit Current (Isc)	13.53 A	10.96 A	13.59 A	11.01 A	13.65 A	11.06 A
Module Efficiency	20.94 %		21.13 %		21.32 %	

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 75% ± 10%]

[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

5%	Nominal Maximum Power (Pmax)	567 W	573 W	578 W
	Module Short Circuit Current / Efficiency	14.21 A / 21.99 %	14.27 A / 22.18 %	14.33 A / 22.39 %
10%	Nominal Maximum Power (Pmax)	594 W	600 W	605 W
	Module Short Circuit Current / Efficiency	14.88 A / 23.03 %	14.95 A / 23.24 %	15.02 A / 23.46 %
25%	Nominal Maximum Power (Pmax)	676 W	682 W	688 W
	Module Short Circuit Current / Efficiency	16.91 A / 26.17 %	16.99 A / 26.41 %	17.06 A / 26.65 %

MECHANICAL SPECIFICATIONS

Dimensions (L x W x T in mm)	2278 x 1133 x 35
Weight(kg)	33
Cell type / No Of Cell	144 Half-cut Mono PERC Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron Heat-strengthened AR coated Glass (2 mm thick)
Encapsulate	PID resistant and UV resistant polymeric film
Back Cover	Low Iron Heat-strengthened Glass (2 mm thick)
Junction Box	Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	50 A, 45 V, 200 °C max. junction temperature
Cable	400 mm length (1200 mm available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100
Mounting Holes Pitch (X)-mm	1095

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40 C to +85 C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	25A

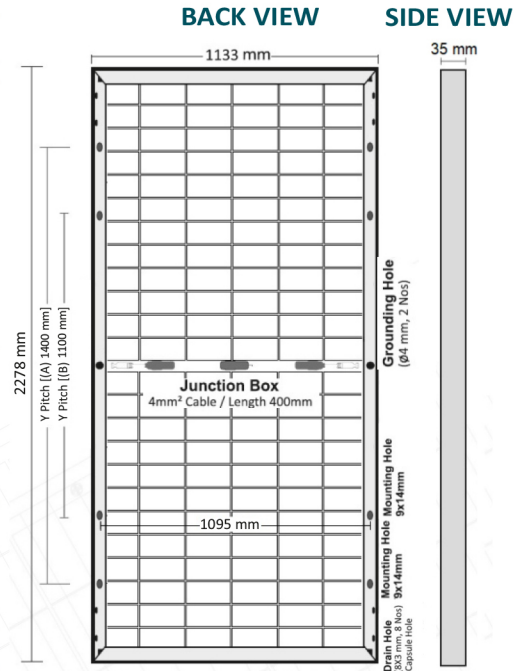
TEMPERATURE COEFFICIENTS

Current (Isc):	0.0286%/°C
Voltage (Voc):	-0.2488%/°C
Power (Pmax):	-0.3290%/°C

STACKING STANDARD

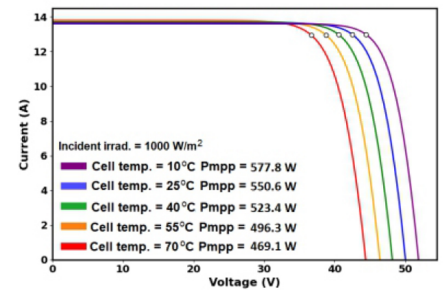
	32FT	40FT
No. of Modules	434	620
No. of Pallets	14	20
Modules per Pallet / Weight	31 Nos/1070 Kg	31 Nos/1070 Kg
Pallet Dimensions	2320*1130*1275	2320*1130*1275

Caution: Please read safety and Installation Instructions before using the product. **Warranty:** Linear power warranty for 30 years, with degradation upto 2% in 1st year and 0.45% per year from 2 to year 30. Please read EVVO Warranty documents carefully. **Disclaimer:** Specifications included in the datasheet are subject to the change without prior notice owing to continuous innovation on the product development and R&D activities. EVVO reserves all the rights to make and adjustment to the information described here. Datasheet contained in this specification do not form a representative of a single module datasheet. @T&C Apply.

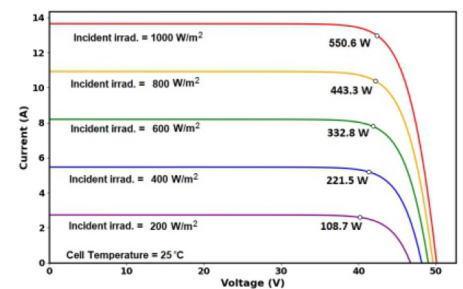


*All dimensions are in mm with +/- 2mm tolerance.

IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 550 Wp Panel

*Graphics shown herein above are reference purpose only. Please consult EVVO Solar Technical Team for any further clarification.