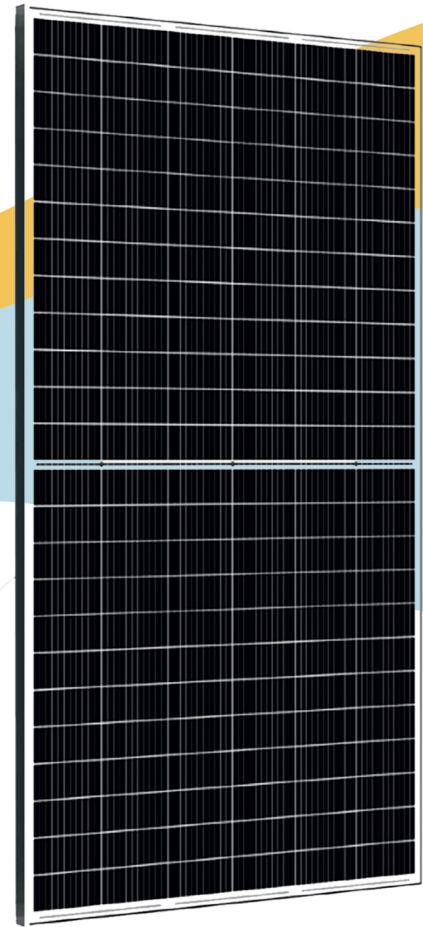









PV POWER EVVO IR SERIES

EVVO PV Power photovoltaic (PV) modules set the industry benchmark for reliable energy production, optimized design and environmental performance. EVVO Modules are designed for High area efficiency



**SOLAR MODULES
MONO PERC 10BB
540-550 Wp**

PRODUCT | KEY FEATURES

-  AR Coated Tempered Glass
Anti-Reflective Module Surface
-  Excellent Module Efficiency
with Mono PERC Cells
-  Positive Power Tolerance
Up to 5W
-  Pre and Post EL Checking
to ensure Defect Free Modules
-  IP68 Junction Box
for Long Term Endurance
-  100% High Voltage Testing to
Ensure Safety
-  High Module Reliability using
Multi Busbar Half-cut Cell Technology



High Reliability

Using tempered glass as back sheet, which brings higher reliability and better anti-corrosiveness to the module.

Best in Class Reliability

EVVO Modules offers Higher Efficiency of 21.32 %

Higher Generation

Excellent temperature coefficient giving higher yields in the long term

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC) (irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.)

Model Number	EVVO 540Wp	EVVO 545Wp	EVVO 550Wp
Nominal Maximum Power (Pmax)	540W	545W	550W
Power Tolerance	<-----	0 ~ +5 W	----->
Optimum Operating Voltage (Vmp)	41.86 V	42.01 V	42.14 V
Optimum Operating Current (Imp)	12.91 A	12.98 A	13.07 A
Open Circuit Voltage (Voc)	49.78 V	49.91 V	50.06 V
Short Circuit Current (Isc)	13.53 A	13.59 A	13.65 A
Module Efficiency	20.94 %	21.13 %	21.32 %
Fill Factor	80.24 %	80.39 %	80.54 %

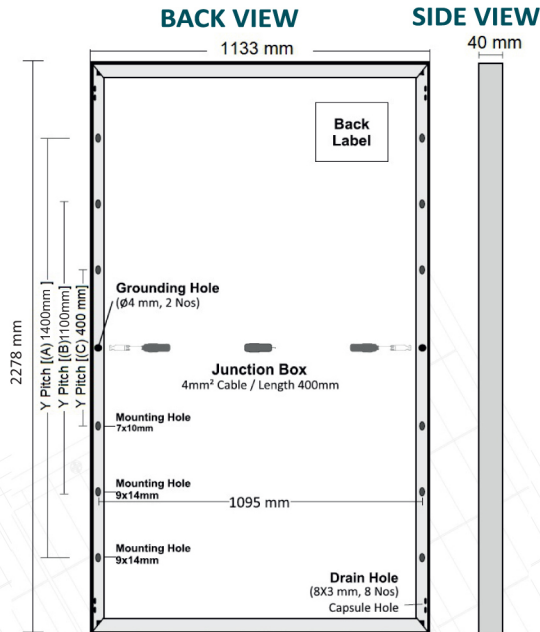
Note: Power measurement uncertainty: <±3%

PERFORMANCE UNDER NOCT (NOCT irradiances of 800 W/m², ambient temperature of 20°C, Wind speed 1m/s, Average NOCT = 45.25°C)

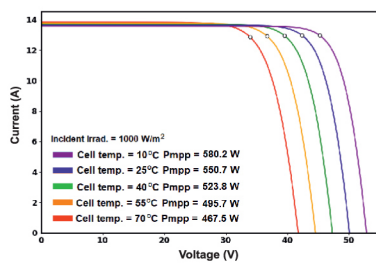
Maximum Power (Pmax)	400 W	403W	407 W
Optimum Operating Voltage (Vmp)	38.54 V	38.68 V	38.80 V
Optimum Operating Current (Imp)	10.37 V	10.43 V	10.49 V
Open Circuit Voltage (Voc)	46.82 V	46.94 V	47.09 V
Short Circuit Current (Isc)	10.96 A	11.01 A	11.06 A

Mechanical Specifications

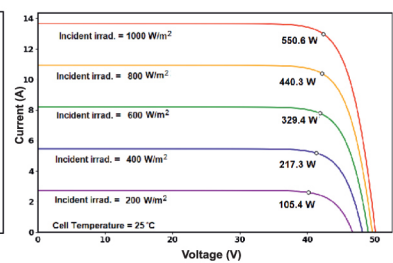
Dimensions (L x W x T in mm)	2278 x 1133 x 40
Weight (Kg)	28.6
No Of Cell	144 [12 x 6 / 12 x 6]
Frame	Silver Anodized Aluminum Alloy (6063, Temper T5, silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) Sheet - PID free and UV resistant
Back Sheet	Fluro-polymer based Composite Film
Junction Box	Split Junction Box (3 nos with Bypass Diode) - Weatherproof (IP68), MC4 Compatible
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, [C] 400
Mounting Holes Pitch (X)-mm	1095



IV Curve Variation with Temperature*

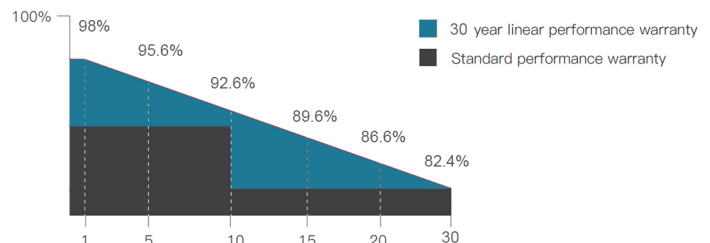


IV Curve Variation with Irradiance*



* I-V curves shown for front-side illumination of 550 Wp panel.

LINEAR PERFORMANCE WARRANTY



*All dimensions are in mm with ± 2 mm tolerance

graphics shown here in above are reference purpose only

MAXIMUM OPERATING CONDITIONS

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

TEMPERATURE COEFFICIENTS

Current α(Isc) :	0.0271 % / C
Voltage β(Voc) :	-0.2355 % / C
Power γ(Pmax) :	-0.3164 % / C

STACKING STANDARD

	19FT	32FT
No. of Modules	192 Nos	432Nos
No of Pallets	8 Pallets	16 Pallets
Modules per Pallet / Weight	24 Nos/730 Kgs.	27 Nos/820 Kgs.
Pallet dimensions	2320*1000*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 0.6% per year from 2 to year 27. Please read EVVO Warranty documents carefully. **Disclaimer:** Specifications included in the datasheet are subject to the change without prior notice owing to conditions 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.