



BI FACIAL PANEL 545 EVS DCR Panel 540 - 550 Bifacial Non DCR

ALMM Approved List by MNRE*

THE INDUSTRY'S BENCHMARK

V-Guard's range of Solar Power Systems are the perfect choice for you if you are looking for a safe, powerful and reliable source of energy. Solar Power Systems i.e. setups made up of photovoltaic or PV Modules, an inverter unit and battery, does the job of effectively converting sunlight into electricity.

Why go for solar?

The answer is simple: the sun's rays can be harvested for energy over and over again without depleting the source. By providing more energy and lasting longer than other brands, V-Guard Solar Power Systems are the best choice for cutting your carbon footprint down to size. When you invest in a Solar Power System, you are essentially purchasing 25 to 30 years of electricity at

PRODUCT CERTIFICATE

 IECEE CB Scheme IEC CB Scheme	 IEC 61215 Design Qualification	 IEC 61730-1 / 2 Safety Qualification	 IS 14286 BIS Qualification	 QUALITY APPROVED Better Performance
 ISO 9000 Certified Mfg. Process	 ISO 14000 Environmental Mgt. System	 M10-Cell	 Split type-JB	 Better Performance

MADE IN INDIA



Linear Performance warranty*



Product warranty on materials and workmanship



AR Coated Tempered Glass
Anti-Reflective Modules Surface



Excellent Module Efficiency with Mono PERC cells through 100% Automation



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% High Voltage Testing to Ensure Safety



MBB Half-Cell Technology provides Better Performance under Partial Shading

TECHNICAL DATA

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

Model Number	RS540WC	RS545WC	RS550WC
Nominal Maximum Power (Pmax)	540 W	545 W	550 W
Power Tolerance	0 to +4.99 W0	0 to +4.99 W	0 to +4.99 W
Optimum OpWerating Voltage (Vmp)	41.86 V	42.01 V	42.14 V
Optimum Operating Current (Imp)	12.91 A	12.98 A	13.06 A
Open Circuit Voltage (Voc)	49.78 V	49.91 V	50.06 V
Short Ciruit 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 %

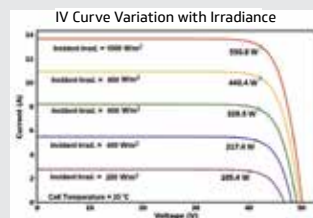
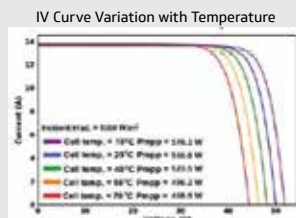
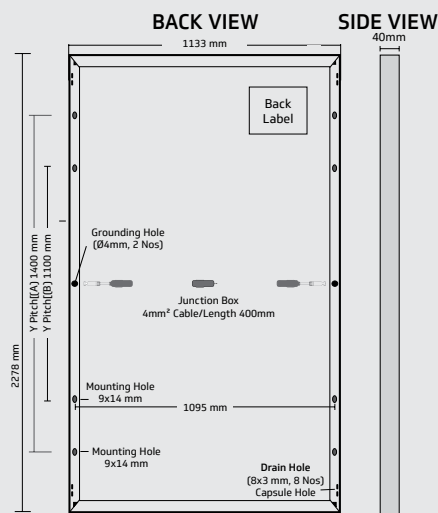
Note: Power Measurement uncertainty: < ±3%

PERFORMANCE UNDER NOCT(NOCT = 45.25^oc irradianc of 800 W/m², ambient temperature of 20^oc and Wind speed 1m/s)

Model Number	RS540WC	RS545WC	RS550WC
Maximum Power (Pmax)	400W	403W	407 W
Optimum Operating Voltage(Vmp)	38.54V	38.68V	38.80 V
Optimum Operating Current (Imp)	10.37A	10.43A	10.49 A
Open Circuit Voltage (Voc)	46.82V	46.94V	47.09 V
Short Circuit Voltage (Isc)	10.96A	11.01A	11.06 A

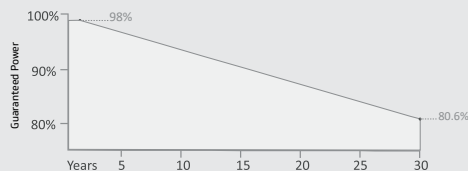
MECHANICAL SPECIFICATION

Dimensions (L x W x T in mm)	2278 x 1133 x 40
Weight(kg)	28.6
Cell type / No Of Cell	144 Half-cut Mono PERC Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinlyl Acetate (EVA) Sheet - PID resistant and UV resistant
Back Cover	Corona treated PVDF Fluoro-polymer Backsheet (white colour)
Junction Box	Split Junction Box (3 nos. with individual Bypass Diode) — Weatherproof (IP68)
Bypass Diode	40 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 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



IV Curve for 550 Wp Panel

LINEAR PERFORMANCE WARRANTY



*Graphic shown here in above are reference purpose only. Please consult Rayzon Solar Technical Tem for any further clarification.

MECHANICAL SPECIFICATION

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

TEMPERATURE SPECIFICATION

Current α (Isc):	-0.0297%/°C
Voltage β (Voc):	-0.2470%/°C
Power γ (Pmax):	-0.3303%/°C

STACKING STANDARD 19FT

No. of Modules	192	486
No. of Pallets	8	18
Modules per Pallets/Weight	24 Nos/730 Kg	27 Nos/820 Kg
Pallet dimension	2320*1000*1275	2320*1130*1275

Caution: Please read safety and installation instructions before using the product. *Warranty: Linear performance warranty for 30 years, with degradation up to 2% in 1st year and 0.6 %/year from year 2 to year 30. Please read Rayzon warranty documents thoroughly. Disclaimer: Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. RAYZON SOLAR reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.

Manufactured at
Rayzon solar Pvt Ltd Factory
Block No. 105, B/H Aron Pipes,
B/H Hariya Talav, Kim Mandvi Road, Karanj,
Surat, Gujarat - 394110 INDIA.

Marketed by
V-GUARD INDUSTRIES LTD. Regd. Office: 42/962,
Vennala High School Road, Vennala, Kochi - 682028
V-Guard care | 0120 485 0100 | 1860 180 3000