

SOLAR MODULES

PANEL 540 MONO PEC HALF CUT DCR

KEY FEATURES



AR coated tempered glass, anti-reflective module surface



Excellent weak light performance



Quality & reliability assurance in standard weather condition



100% pre and post EL



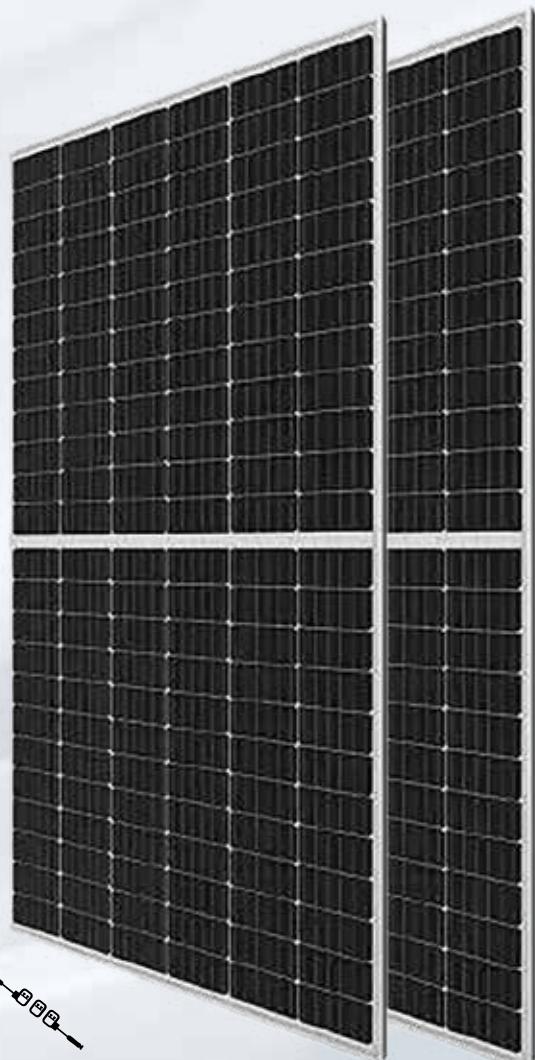
IP68 Junction box for long term endurance



Ensure safety parameters through safety test



Positive power tolerance upto 5W



WARRANTY



Industry leading linear power output warranty*



Product warranty on materials & workmanship

CERTIFICATIONS



IEC CB scheme



Design qualification



Safety qualification



BIS qualification



Split type - JB



Better performance



Certified mfg. process



Environmental mgt. system



182 mm²

M10 - Cell



Better performance

TECHNICAL DATA

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)

(Irradiance of 1000 W/m² spectrum AM 1.5 G & cell temperature of 25°C)

Nominal maximum power (Pmax)	540W
Optimum operating voltage (Vmp)	41.86
Optimum operating current (Imp)	12.91
Open circuit voltage (Voc)	49.78
Short circuit current (Isc)	13.53
Module eff (%)	20.94

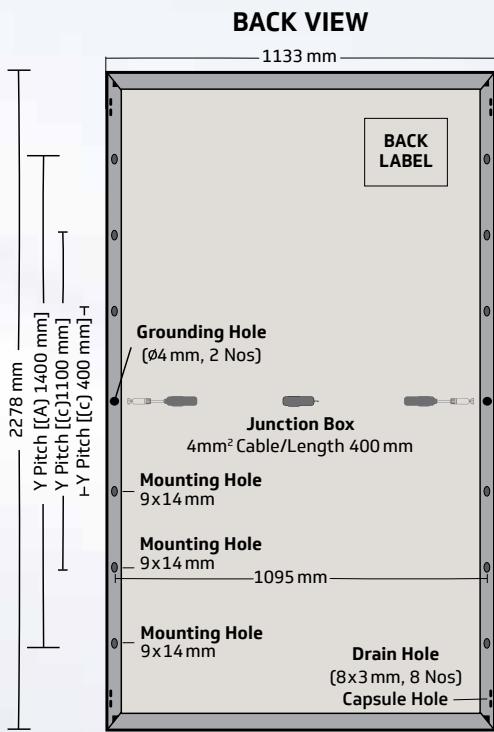
PERFORMANCE UNDER NOCT

(NOCT= 45.25°C irradiance of 800 W/m², ambient temperature of 20°C and wind speed 1 m/s)

Maximum power (Pmax)	403
Optimum operating voltage (Vmp)	38.68
Optimum operating current (Imp)	10.43
Open circuit voltage (Voc)	46.94
Short circuit current (Isc)	11.01

MECHANICAL SPECIFICATION

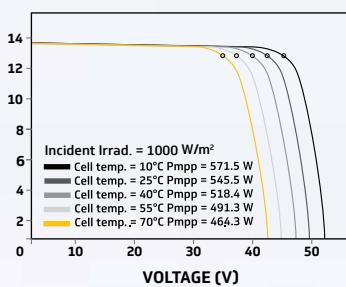
Dimensions (LxWxT in mm)	2278 x 1133 x 40
Weight (kg)	28.6
No of cells	144 [12x6/12x6]
Frame	Anodized aluminium alloy (6005, temper T6, silver color)
Front cover	ARC coated low iron tempered glass (3.2 mm thick)
Encapsulant	Ethylene-vinyl acetate (EVA) - PID free and UV resistant
Back cover	Corona treated PVDF Fluoro-polymer Back sheet (white colour)
Junction box/connector rating/type	Split junction box (IP68) - weather proof/MC4 compatible
Cable cross - section & length	4mm ² & 400mm
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 mm [B] 1100 mm [C] 400 mm
Mounting holes pitch (X) - mm	1095 mm



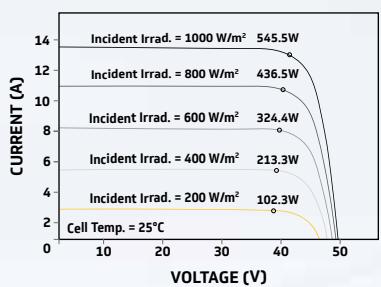
*All dimensions are in mm with +/- 1% tolerance.

SIDE VIEW

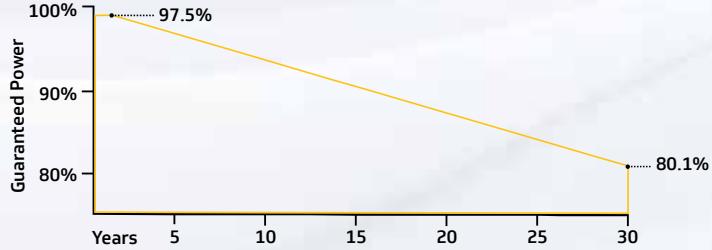
IV CURVE VARIATION WITH TEMPERATURE



IV CURVE VARIATION WITH IRRADIANCE



LINEAR PERFORMANCE WARRANTY



*graphics shown herein above are reference purpose only.
Please consult the technical team for any further clarification.

MAXIMUM OPERATING CONDITIONS

Operating temperature :	-40°C to + 85°C
Maximum system voltage :	1500 V
Maximum series fuse rating :	25 A

TEMPERATURE COEFFICIENT

Current $\alpha(I_{sc})$:	0.0297 % /C
Voltage $\beta(V_{oc})$:	-0.2470%/C
Power $\gamma(P_{max})$:	-0.3303%/C

Caution : Please read safety and installation instructions before using the product ***warranty:** Linear power warranty for 30 years up to 2.5% for 1st year degradation and 0.60% / year from year 2 to year 30. Please read the warranty document thoroughly.

Disclaimer: Specifications included in the datasheet are subject to change without prior notice owing to conditions innovation on the Product Development and R&D Activities. V-Guard reserves the right to make any adjustment to the information described here. Dataset contained in this specification does not form a representative of a single module data. @ T&C apply.

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