



**HAVELLS**



# SOLAR MODULES MONO PERC 10BB

Module : 545 / 550 / 555 / 560 Wp

## KEY FEATURES



AR Coated Tempered Glass Anti-Reflective Module 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



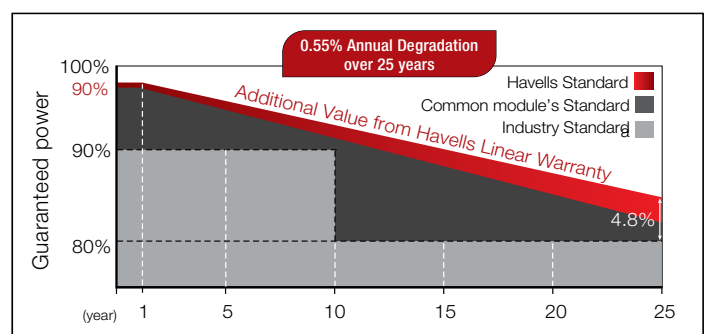
100% High Voltage Testing to Ensure Safety



MBB Half-Cell Technology provides Better performance under Partial Shading

## THE INDUSTRY'S BENCHMARK

Rayzon Solar is an internationally renowned leading solar energy cost effective befitting solutions provider having core competency in high efficiency PV module manufacturing and providing wide range EPC solutions. Our PV modules are the best in class in terms of power output and long-term reliability.



# ELECTRICAL CHARACTERISTICS

## PERFORMANCE UNDER STANDARD TEST CONDITIONS

Model Number	Enviro RZPV 144MO545	Enviro RZPV 144MO550	Enviro RZPV 144MO555	Enviro RZPV 144MO560
Nominal Maximum Power (Pmax)	545	550	555	560
Power Tolerance	0 to +4.99 W	0 to +4.99 W	0 to +4.99 W	0 to +4.99 W
Optimum Operating Voltage (Vmp)	42.01 V	42.14 V	42.28 V	42.28 V
Optimum Operating Current (Imp)	12.98 A	13.07 A	13.13 A	13.13 A
Open Circuit Voltage (Voc)	49.91 V	50.06 V	50.20 V	50.20 V
Short Circuit Current (Isc)	13.59 A	13.65 A	13.71 A	13.71 A
Module Efficiency	21.13 %	21.32 %	21.52 %	21.52 %
Fill Factor	80.39 %	80.54 %	80.69 %	80.69 %

Note: Power Measurement uncertainty: < ±3%

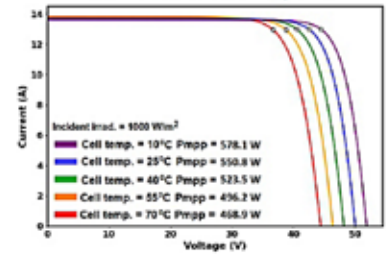
## PERFORMANCE UNDER NOCT

Maximum Power (Pmax)	403 W	407 W	411 W	411 W
Optimum Operating Voltage (Vmp)	38.68 V	38.80 V	38.93 V	38.93 V
Optimum Operating Current (Imp)	10.43 A	10.49 A	10.55 A	10.55 A
Open Circuit Voltage (Voc)	46.94 V	47.09 V	47.21V	47.21V
Short Circuit Current (Isc)	11.01 A	11.06 A	11.11 A	11.11 A

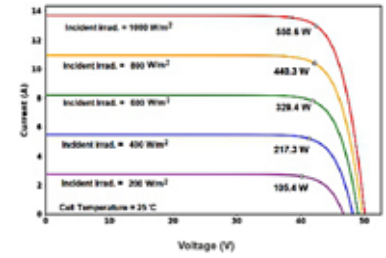
## MECHANICAL SPECIFICATIONS

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 Vinly 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 (Customised cable length 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 Variation with Temperature

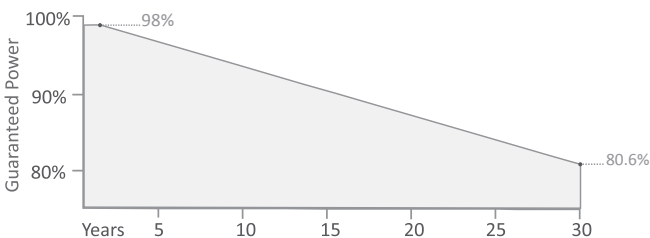


IV Curve Variation with Irradiance



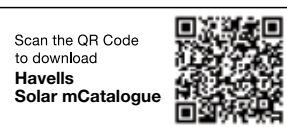
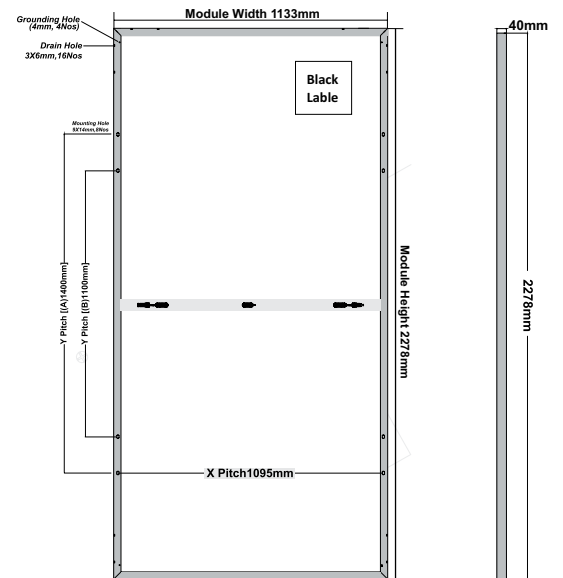
IV Curves for 550Wp Panel

### LINEAR PERFORMANCE WARRANTY



BACK VIEW

SIDE VIEW



Scan the QR Code to download Havells Solar mCatalogue

## Havells India Ltd.

QRG Towers, 2D, Sector -126, Expressway, Noida - 201 304 (UP), Ph. +91-120-3331000, E-mail: marketing@havells.com, www.havells.com, Customer Care No. 08045 77 1313 Join us on Facebook at www.facebook.com/havells and share your ways to save the planet!

CIN - L31900DL1983PLC016304

