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HARNESSING LIGHT. HARVESTING ENERGY.

HAVELLS ENVIRO SOLAR PV MODULE

**MONO PERC TECHNICAL DATASHEET -
ENVIRO-MPHC144-450 Wp**

The high-performance high-efficiency MONO PERC Modules are designed with half Cut cell configuration.

- BIS Approved
- Multi busbar PERC Cells
- Half Cut Cell configuration
- Made In India
- 10 years Standard Warranty
- 25 years Linear output warranty

IS 14286 : 2010 / IEC 61215 : 2005,
IS/IEC 61730 (PART 1): 2004
IS/IEC61730 (PART2):2004



R-63002518

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TECHNICAL SPECIFICATION

Cell Type	Mono PERC-crystalline 83mm x 166mm
Model Name	ENVIRO-MPHC144-450
Rated power (Pmax), Wp	450
Max power voltage (Vmp), V	41.25
Max power current (Imp), A	10.91
Open circuit voltage (Voc), V	49.05
Short circuit current (Isc), A	11.62
Module efficiency (%)	20.68
Number of cells	144

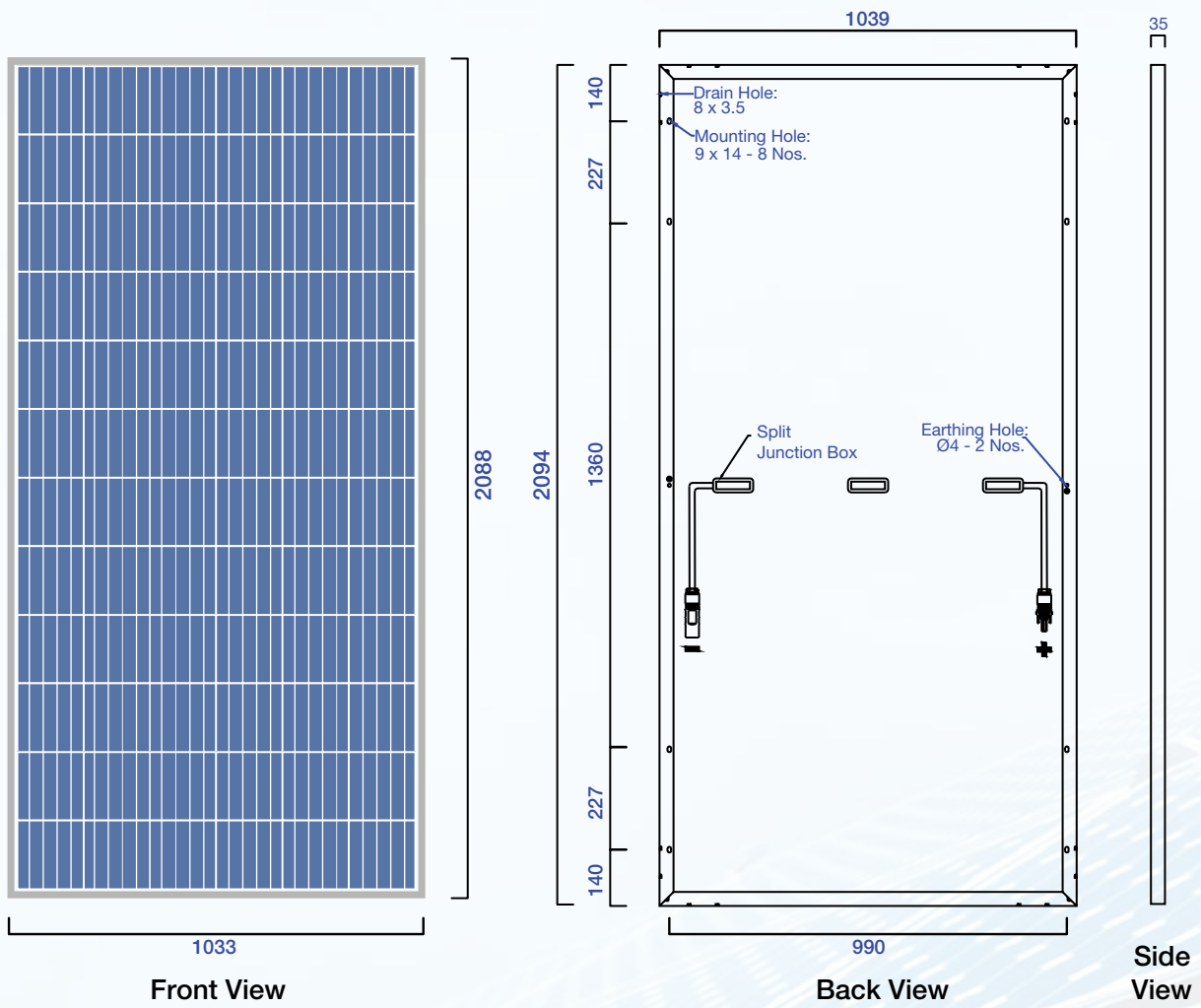
TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	- 0.35% / °C
Voc Temperature Coefficient	- 0.3 % / °C
Isc Temperature Coefficient	0.06% / °C
Operating Temperature	- 40 °C to + 85 °C
Nominal Operating Cell Temperature	45 ± 2 °C

MECHANICAL PARAMETERS

Module dimensions (mm)	2094 mm x 1039 mm x 35 mm
Approx. Weight (kg)	24 kg
Glass	3.2 mm High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	3 Split, IP68 Rated
Output Cable	4.0 Sq mm, Portrait: (-)350 mm and (+) 160 mm in Length, Landscape: (-)1400 mm and (+)1400 mm in Length
Portrait: (-)350 mm and (+) 160 mm in Length	- 0.20% / °C
Landscape: (-)1400 mm and (+)1400 mm in Length	0.052% / °C
STC	Under Standard Test Condition (STC) of radiance of 1000 w/m ² , spectrum AM 1.5 and cell temperature of 25'c
Maximum system voltage, Vdc	1500 V DC
Mechanical Load	5400 Pa for Snow Load, 2400 Pa Wind Load
Packing Details	31 nos per Pallet

MODULE DRAWING



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