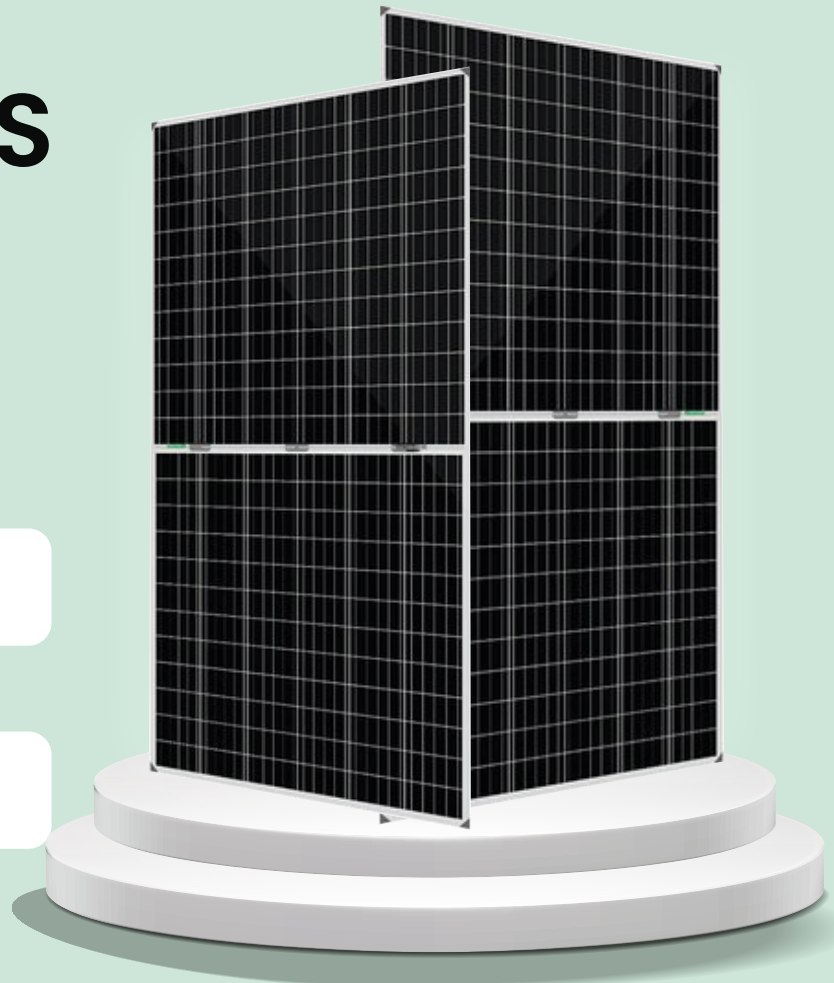


VALOR SERIES

132 cells | 10BB Module
Mono-Perc Half cut
Solar PV Module

10
YEARS
WARRANTY FOR MATERIALS
AND PROCESSING

30
YEARS
WARRANTY FOR LINEAR
POWER OUTPUT



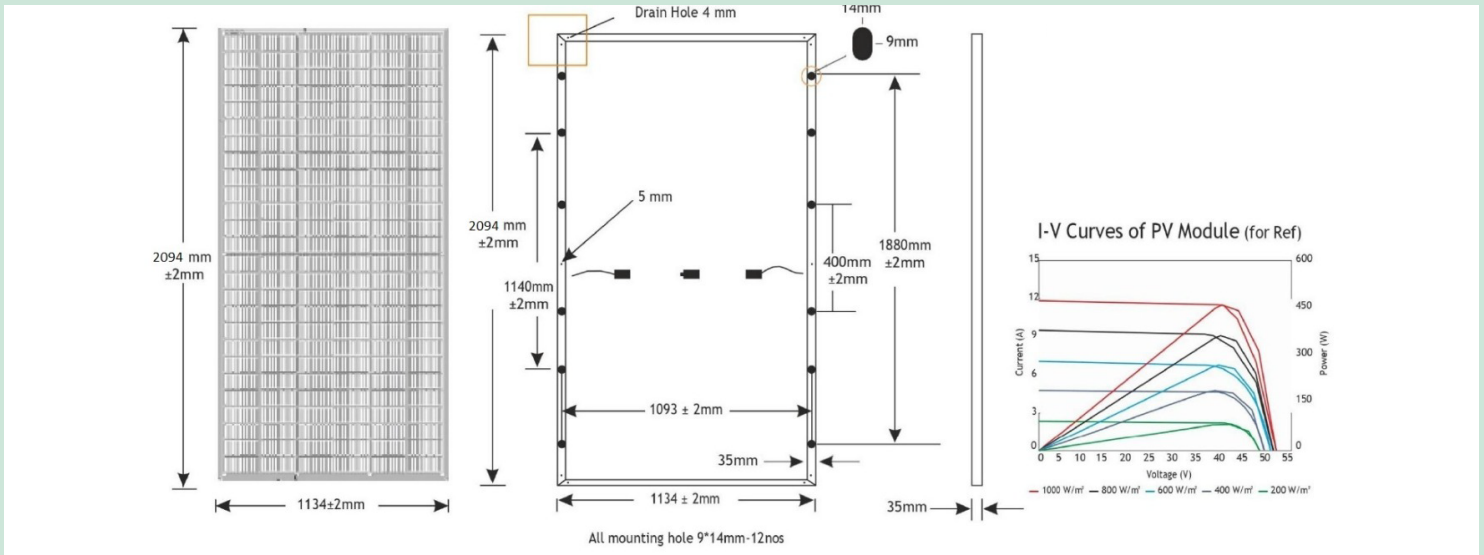
Product certifications:

IS 14286:2010 | IEC 61215: 2005 IS | IEC 61730-2:2004 IS
| IEC 61730-1:2004 | IEC 62804 | IEC 61853 | IEC 61701

Salient features

- M10 cells for enhanced power generation
- Multi-busbar technology to minimize electrical losses
- Round ribbon connectors for improved light utilization
- Non-destructive cell cutting for improved reliability and lower chances of micro-cracks
- Half-cut cell technology for superior low-light performance.
- Also available in Bifacial technology enabling power generation from both the sides.

Mechanical Dimensions



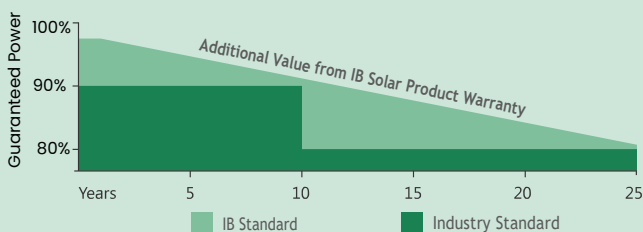
Electrical Data

Module Type	IBMPH480-132		IBMPH485-132		IBMPH490-132		IBMPH495-132		IBMPH500-132	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	480	361.6	485	365.4	490	369.1	495	372.9	500	376.7
Maximum Power Voltage (Vmp)	38.08	34.62	38.28	34.8	38.47	34.98	38.67	35.16	38.87	35.34
Maximum Power Current (Imp)	12.64	10.44	12.69	10.5	12.73	10.55	12.78	10.6	12.86	10.66
Open Circuit Voltage (Voc)	44.69	42.17	44.83	42.31	44.97	42.45	45.11	42.59	45.27	42.73
Short Circuit Current (Isc) (A)	13.29	11.02	13.33	11.07	13.37	11.13	13.41	11.19	13.48	11.24
Module Efficiency STC (%)	20.22		20.43		20.64		20.85		21.06	
Operating Temperature (0C)	-40°C_+85°C									
Maximum System Voltage	1500 V DC (IEC)									
Maximum Series fuse rating	15A									

(i) STC : 1000W/m² irradiance, 25°C cell temperature, AM1,5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 5% at 200W/m² according to EN 60904-1.

IB Solar Performance Warranty

10 Years Product Warranty - 25 Years Linear Power Warranty



Increased Shade Tolerance

HALF-CELL MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading



*The above data is liable to change without prior notice
*Warranty applicable as per standard warranty terms as available on www.ibsolar.co.in

Mechanical Data

Specification	Data
Cell Type	Half cut Mono PERC
Cell Arrangement	66 Mono PERC -132 Half Cut Cells
Dimensions	2093x1134x35mm
Weight	26.65 Kg
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Cable	4mm ² (IEC) - Length 0.35 mtr (Potrait)/ 1.4 mtr (Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs

TEMPERATURE Characteristic

Specification	Data
Temperature Co-efficient (Pmax)	-0.36% / °C
Temperature Co-efficient (Voc)	-0.36% / °C
Temperature Co-efficient (Isc)	-0.06% / °C
Nominal Operating Cell Temperature	42 ± 2° C



EXCELLENT
EFFICIENCY



LOW-LIGHT
PERFORMANCE



HIGH SAVING



PID
RESISTANCE



IP68
JUNCTION



REDUCED RISK



Ideal for Large
scale Installations



High Power



Better shading
tolerance



Lower LCOE &
system cost



Excellent
temperature
performance



Non-destructive
cutting