

The Dhanush

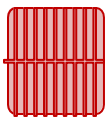
144 Half-Cut 'Crafted' Module

144 LAYOUT
MONOCRYSTALLINEMODULE



High power mono perc

530-550 W
POWEROUTPUT RANGE



Multi Bus Bar Solar Cells

MBB
Multi Bus-Bar



High reliability

0~+5W
POSITIVE POWER TOLERANCE



High energy generation

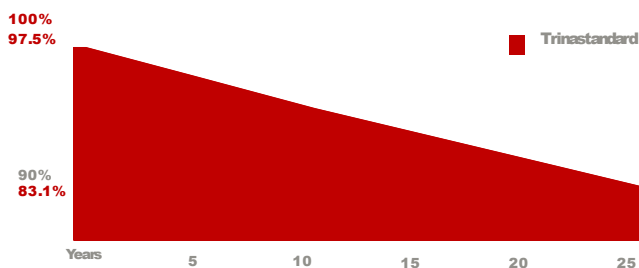
Excellent Performance on Sunny days



Balance of System (BOS) Saving

Performance Warranty

25 Year Power Warranty



From the 2nd year to the 25th year, the average annual power decline will be no more than 0.6%.

Bring Home Happiness





MBB Series – USM10BB



23.2 %
MAX MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

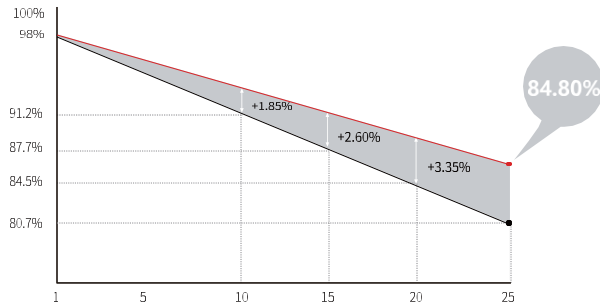
<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

HALF-CELL
Lower operating temperature

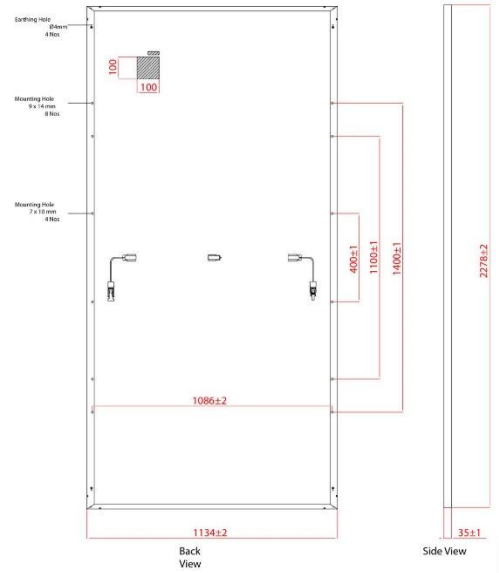
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6 x 24)
Junction Box	IP 68 Three Diodes
Glass	Solar Glass 3.2 mm ARC Coated Textured & Hot Tempered
Output Cable	4 mm, 400 mm, can be customized
Frame	Anodized Aluminium
Weight	27.5 Kg
Dimension	2278 x 1134 x 35 mm



40
30

Electrical Characteristics

Test conditions for Pmax: 25°C

Module Type	USM 545			USM 550	
Testing Condition	Maximum	STC	STC	STC	STC
Power (Pmax/W) Voc - Open	530	535	540	545	550
Circuit Voltage Isc - Short	49.20	49.35	49.50	49.65	49.80
Circuit Current	13.71	13.78	13.85	13.92	13.98
Vmp - Voltage at Max. Power	41.35	41.50	41.65	41.80	41.95
Imp - Current at Max. Power	12.82	12.90	12.97	13.04	13.12
Module Efficiency (%)	20.7	20.9	21.1	21.3	21.5

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (WP)	393	397	399	402	407
Maximum Power Voltage-VMPP (V)	38.3	38.4	38.5	38.6	38.7
Maximum Power Current-IMPP (A)	10.29	10.34	10.37	10.43	10.52
Open Circuit Voltage-Voc (V)	45.9	46	46.1	46.2	46.3
Short Circuit Current-Isc (A)	10.89	10.96	11.03	11.09	11.15

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Operation Temperature	-40°C ~ +85°C
Power Tolerance	0 ~ +5 W
Voc & Isc Tolerance	+/- 3%
Maximum System Voltage	1500 V (IEC Stand.)
Maximum Series Fuse Rating	25 Amps
Nominal Operating Cell Temp.	45 Degrees +/- 2%
Protection Class	Class II
Fire Rating	BIS 61730 Part 1 & Part 2

Mechanical Loading

Front Side Maximum Static Loading	5400 Pa
Rear Side Maximum Static Loading	2400 Pa
Hailstone Test	25 mm Hailstone at Speed of 23 m/sec

Temperature Ratings (STC)

Temp Coefficient of Isc	+0.040%/°C
Temp Coefficient of Voc	-0.270%/°C
Temp Coefficient of Pmax	-0.350%/°C

Specifications mentioned in the datasheets are subject to change without notice.

Ankur Traders & Engineers Pvt Ltd representing Usha Shriram Solar reserves the Right of final interpretation.



Marketing Alliance :

Ankur Traders & Engineers Pvt Ltd D-130 BSRoad Industrial Area Ghaziabad, DELHI- NCR, INDIA
Care : +91-8448090244