

JST-HBMH-(630-640)W-TD

MBB HALF-CELL N-Type TOPCon

Bifacial Double Glass Monocrystalline PV Module

630-640W

POWER RANGE

23.7%

MAXIMUM EFFICIENCY

0.40%

YEARLY DEGRADATION



15 YEARS PRODUCT WARRANTY



**30 YEARS OUTPUT
GUARANTEE**

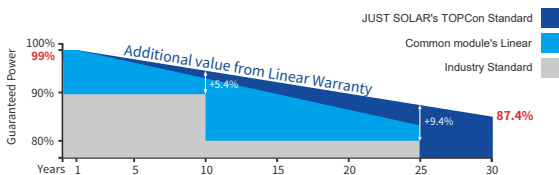


IEC 61215/IEC 61730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System



*Please check the valid version of Limited Product Warranty which is officially released by JUST SOLAR GROUP LIMITED.

*As there are different certification requirements in different markets, please contact your local sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

Key Features



Excellent Cells Efficiency

SMBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



Reaction to Fire Class 1

In conformity with standard UNI 9177:1987, reaction to fire class 1.



Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.



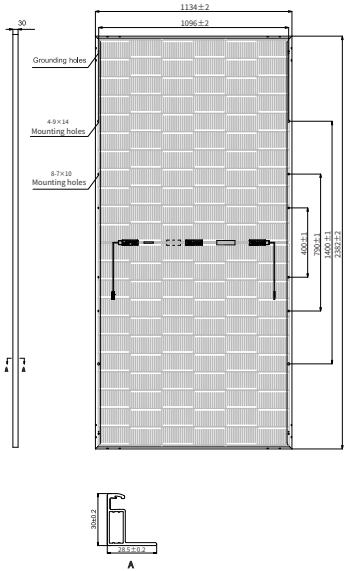
Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.

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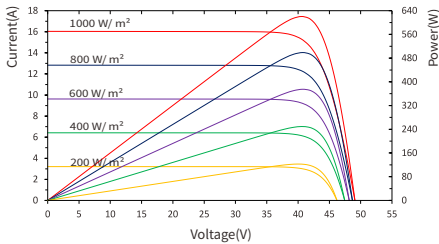
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Bifacial Double Glass Monocrystalline PV Module

Dimensions of PV Module Unit: mm

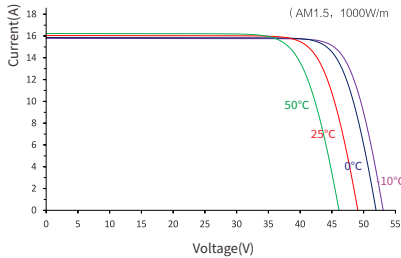


JST-HBMH-630W-TD

I-V characteristics at different irradiances



I-V characteristics at different temperatures



PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	720	144
Number of modules per pallet	36	36
Number of pallets per container	20	4
Packaging box dimensions (LxWxH) in mm	2395×1110×1260	
Box gross weight[kg]	1238	

ELECTRICAL DATA (STC)

Model Type	JST-HBMH-(630-640)W-TD		
Rated Power in Watts-Pmax(Wp)	630	635	640
Open Circuit Voltage-Voc(V)	49.46	49.66	49.85
Short Circuit Current-Isc(A)	16.16	16.22	16.28
Maximum Power Voltage-Vmpp(V)	41.17	41.34	41.52
Maximum Power Current-Impp(A)	15.31	15.36	15.41
Module Efficiency (%) ★	23.3	23.5	23.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 80±10(%) ★ Module Efficiency (%): Rounding to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	693	699	704
Open Circuit Voltage-Voc(V)	49.46	49.66	49.85
Short Circuit Current-Isc(A)	17.78	17.84	17.91
Maximum Power Voltage-Vmpp(V)	41.17	41.34	41.52
Maximum Power Current-Impp(A)	16.84	16.90	16.96

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Type	JST-HBMH-(630-640)W-TD		
Maximum Power-Pmax (Wp)	477.3	481.2	485.0
Open Circuit Voltage-Voc (V)	46.00	46.18	46.36
Short Circuit Current-Isc (A)	13.25	13.30	13.35
Maximum Power Voltage-Vmpp (V)	38.21	38.36	38.53
Maximum Power Current-Impp (A)	12.49	12.54	12.59

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

MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2382×1134×30mm (93.78×44.65×1.18 in)
Weight	32.5kg (71.65 lb)
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm², 350mm(13.78 in) (+), 230mm(9.06 in) (-), connector included, or customized length
Connector	Twinsel PV-SY02, IP68
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back), under certain installation method

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A