

JST-FDMH-(625-645)W-HD

MBB HALF-CELL N-Type HJT Bifacial Double Glass
Monocrystalline PV Module

625-645W

POWER RANGE

22.80%

MAXIMUM EFFICIENCY

0.45%

YEARLY DEGRADATION



12 YEARS PRODUCT WARRANTY



**30 YEARS OUTPUT
GUARANTEE**

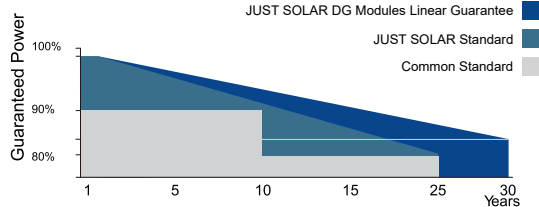


IEC 61215/IEC 61730

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.

STC/NMOT

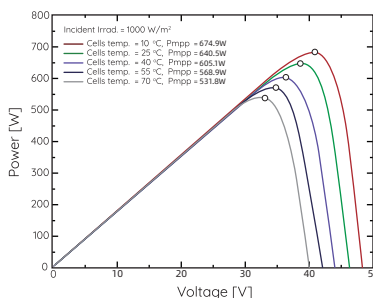
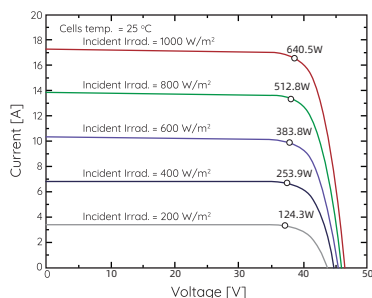
STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

Model	625		630		635		640		645	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	625	520	630	525	635	530	640	534	645	538
Vmp (V)	39.20	37.00	39.26	37.06	39.31	37.11	39.37	37.17	49.48	37.28
Imp (A)	15.96	14.06	16.08	14.18	16.19	14.29	16.27	14.37	16.34	14.44
Voc (V)	44.58	41.98	44.64	42.04	44.70	42.10	44.76	42.16	44.82	42.22
Isc (A)	17.05	15.05	17.16	15.16	17.27	15.27	17.33	15.33	17.42	15.42
Panel Efficiency (%)	22.10		22.30		22.40		22.60		22.80	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	625		630		635		640		645	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	689		695		700		706		711	
Vmp (V)	39.20		39.26		39.31		39.37		49.48	
Imp (A)	17.60		17.74		17.86		17.95		18.02	
Voc (V)	44.58		44.64		44.70		44.76		44.82	
Isc (A)	18.81		18.93		19.05		19.11		19.21	

Electrical Curves:**Mechanical Specification**

Solar Cell Type	120 half-cut, N-Type, HJT cells
Module Dimensions (mm)	2172×1303×35
Module Weight (kg)	35.5
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31 pieces/pallet, 558 pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223 %/ °C
Temperature Coefficient of Pmax	-0.243 %/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C

Warranty

Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

