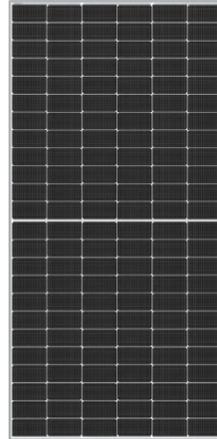


Mono 182ND 144 HALF CELLS 575-600W



HALF-CELL BIFACIAL MODULE WITH DUAL GLASS
N-TYPE TOPCON

TYPE: QS-72HDM5-XXXM



POWER OUTPUT **575-600W** MAX EFFICIENCY **23.23%**

Features



High module conversion efficiency
Module efficiency up to 23.23% achieved through advanced cell technology and manufacturing process



Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output



Extended wind and snow load tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *

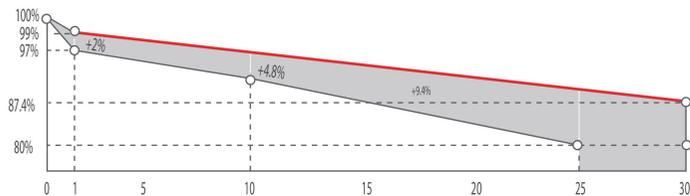


Withstanding harsh environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



Excellent weak light performance
More power output in weak light condition, such as cloudy, morning and sunset

Industry-leading Warranty **



- ◆ First year power degradation: 1%
- ◆ Annual degradation: 0.40%
- ◆ 30 years of linear warranty
- ◆ 15 years of product warranty

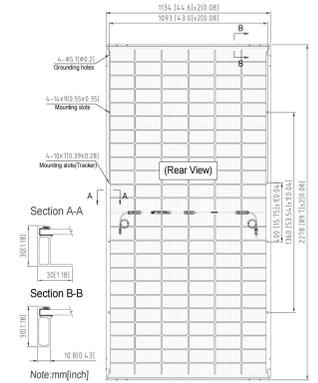
□ Conventional Module
■ Qsuper Module

Mono 182ND 144 HALF CELLS 575-600W



Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	31.0 kgs
Front \ Back Glass	2.0mm, Anti-reflection Coating/2.0mm, Heat Strengthened Glass
Output Cables	4.0 mm ² , (+) 400 mm, (-) 200 mm or customized length
Junction Box	IP68 rated
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	MC4/Others
Maximum Series Fuse Rating	30A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(80 ± 5)%



Electrical Characteristics

Module Type	QS-72HDM5-600M	QS-72HDM5-595M	QS-72HDM5-590M	QS-72HDM5-585M	QS-72HDM5-580M	QS-72HDM5-575M
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	600	595	590	585	580	575
Optimum Operating Voltage (Vmp/V)	44.45	44.31	44.17	44.02	43.88	43.73
Optimum Operating Current (Imp/A)	13.50	13.43	13.36	13.29	13.22	13.15
Open Circuit Voltage (Voc/V)	53.30	53.10	52.90	52.70	52.50	52.30
Short Circuit Current (Isc/A)	14.19	14.13	14.07	14.01	13.95	13.89
Module Efficiency (%)	23.23	23.03	22.84	22.65	22.45	22.26

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Different Rearside Power Gain

	660	655	649	644	638	633
Maximum Power at STC (Pmax)						
Optimum Operating Voltage (Vmp/V)	44.66	44.50	44.33	44.17	44.00	43.84
Optimum Operating Current (Imp/A)	14.78	14.72	14.64	14.58	14.50	14.44
Open Circuit Voltage (Voc/V)	53.33	53.13	52.93	52.73	52.53	52.33
Short Circuit Current (Isc/A)	15.49	15.43	15.37	15.31	15.25	15.19

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.045%/°C

Packing Configuration

Container	40' HQ
Pieces per pallet	36
Pallets per container	20
Pieces per container	720
Packaging box dimensions	2338×1140×1251 mm
Packaging box weight	1152kg

Graphs

Current-Voltage & Power-Voltage (590W)

