

Mono 182D 144 HALF CELLS 530-550W

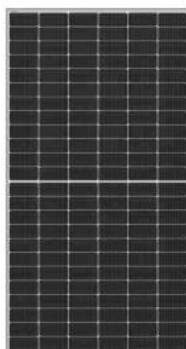


HALF-CELL BIFACIAL MODULE

TYPE: QSM-HXXXW - C72/D

POWER OUTPUT
530-550W

MAX EFFICIENCY
21.3%



Features



High module conversion efficiency

Module efficiency up to **21.3%** 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

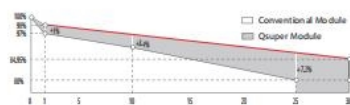
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



Excellent weak light performance

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

Industry-leading Warranty



- First year power degradation: 2%
- 30 years of linear warranty
- Annual degradation: 0.45%
- 12 years of product warranty

www.qsuperpower.com www.qsupersolar.com

Certifications and Standards



E-MAIL: SALE@QSUPERPOWER.COM

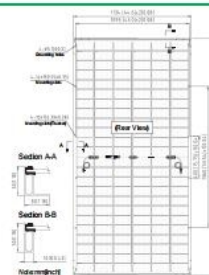
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QSM-HXXXW - C72/D 530-550W



Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm x 91 mm
No. of Cells	144 (6 x 24)
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.2 inches)
Weight	37.0 kg (70.5 lbs)
Front / Back Glass	2.0 x 2.0 mm (0.079 x 0.079 inches) semi-tempered glass
Output Cables	4.0 mm ² , (+) 150 mm and (-) 160 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+ 5W
Reflex. Bifaciality Factor	(70 ± 5)%



Electrical Characteristics

Module Type	QSM-H550W - C72/D		QSM-H545W - C72/D		QSM-H540W - C72/D		QSM-H535W - C72/D		QSM-H530W - C72/D	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	550	415.0	545	411.5	540	408.0	535	404.3	530	400.6
Optimum Operating Voltage (Vmp/V)	42.05	38.9	41.87	38.7	41.75	38.6	41.57	38.4	41.39	38.2
Optimum Operating Current (Imp/A)	13.08	10.67	13.02	10.63	12.94	10.58	12.87	10.53	12.81	10.47
Open Circuit Voltage (Voc/V)	49.88	46.9	49.69	46.7	49.54	46.5	49.39	46.4	49.24	46.3
Short Circuit Current (Iscl/A)	14.01	11.22	13.96	11.18	13.89	11.13	13.83	11.08	13.76	11.02
Module Efficiency (%)	21.3		21.1		20.9		20.7		20.5	

STC: Irradiance 1000 W/m², module temperature 25 °C, Air Mass 1.5; NOCT: Irradiance 800 W/m², ambient temperature 35 °C, Air Mass 1.5, wind speed 1 m/s; Tolerance of Pmax is within ± 5%

Different Rearside Power Gain

Reference to 5400 Point

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	567.0	621.0	675.0
Optimum Operating Voltage (Vmp/V)	41.8	41.8	41.9
Optimum Operating Current (Imp/A)	13.59	14.88	16.18
Open Circuit Voltage (Voc/V)	49.5	49.5	49.6
Short Circuit Current (Iscl/A)	14.58	15.97	17.36
Module Efficiency (%)	21.9	24.0	26.1

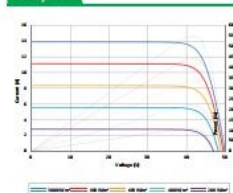
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.20%/°C
Temperature Coefficient of Isc	0.050%/°C

Packing Configuration

Container	40' HQ
Pieces per pallet	36
Pallets per container	30
Pieces per container	720
Packaging box dimensions	2310 x 1120 x 1255 mm
Packaging box weight	902 kg

Graphs



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