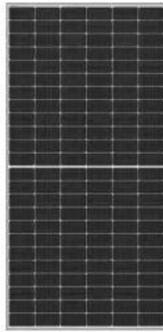


Mono 182 144 HALF CELLS 535-555W



HALF-CELL MONOFACIAL MODULE

TYPE: QSM-HXXXW - C72/S

POWER OUTPUT
535-555W

MAX EFFICIENCY
21.5%

Features

High module conversion efficiency
Module efficiency up to **21.5%** achieved through advanced cell technology and manufacturing process.

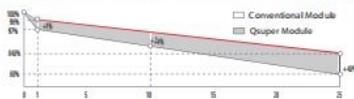
Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output.

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%
- ◆ 25 years of linear warranty
- ◆ Annual degradation: 0.55%
- ◆ 12 years of product warranty

Certifications and Standards



www.qsuperpower.com www.supersolar.com

E-MAIL: SALE@QSUPERPOWER.COM

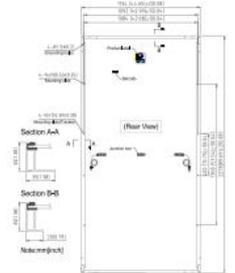
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QSM-HXXXW - C72/S 535-555W

Mechanical Characteristics

Solar Cell	Monocrystalline 4Rc on 182 mm x 91 mm
No. of Cells	144 (6 x 24)
Dimensions	2278 x 1134 x 35 mm (89.7 x 44.6 x 1.4 inches)
Weight	27.5 kg (60.6 lbs.)
Front Glass	3.2 mm (0.126 inch) fully tempered glass
Output Cables	4.0 mm ² , (4) 350 mm (14) 140 mm in length or customer's length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W



Electrical Characteristics

Module Type	QSM-H535W-C72/S		QSM-H550W-C72/S		QSM-H545W-C72/S		QSM-H540W-C72/S		QSM-H539W-C72/S	
	STC	NMOT								
Maximum Power (P _{max} at V _{oc})	555	418.7	550	415	545	411.5	540	408	535	404.3
Optimum Operating Voltage (V _{mp} at V _{oc})	42.24	39.1	42.05	38.9	41.87	38.7	41.75	38.6	41.57	38.4
Optimum Operating Current (I _{mp} at V _{oc})	13.14	10.72	13.08	10.67	13.02	10.63	12.94	10.58	12.87	10.53
Open Circuit Voltage (V _{oc} at V _{oc})	50.07	47	49.88	46.9	49.69	46.7	49.54	46.5	49.39	46.4
Short Circuit Current (I _{sc} at V _{oc})	14.07	11.27	14.01	11.22	13.96	11.18	13.89	11.13	13.83	11.08
Module Efficiency (%)	21.5		21.3		21.1		20.9		20.7	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM1.5, 1000h; Irradiance 800 W/m², ambient temperature 20 °C, Air Mass 1.5, wind speed 1 m/s; Tolerance of P_{max} is within +/- 3%

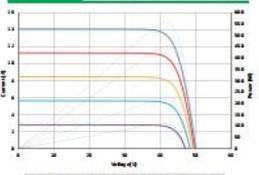
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of P _{max}	-0.34%/°C
Temperature Coefficient of V _{oc}	-0.26%/°C
Temperature Coefficient of I _{sc}	0.050%/°C

Packing Configuration

Container	40' HQ
Pieces per pallet	31
Pallets per container	30
Pieces per container	620
Packaging box dimensions	2310 x 1120 x 125 mm
Packaging box weight	902 kg

Graphs



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