

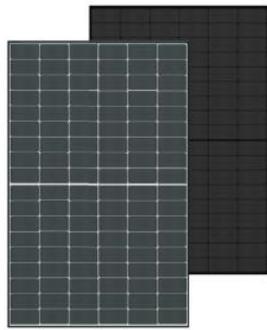
# Mono 182 108 HALF CELLS 390-410W



## HALF-CELL MONOFACIAL MODULE

TYPE: QSM-HXXXW - C54/S

**POWER OUTPUT**      **MAX EFFICIENCY**  
**390-410W**              **21.0%**



### Features

**High module conversion efficiency**  
 Module efficiency up to **21.0%** achieved through advanced cell technology and manufacturing process.

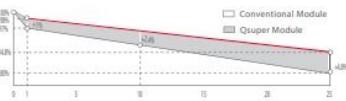
**Lower operating temperature**  
 Lower operating temperature and temperature coefficient increases the power output.

**Extended wind and snow load tests**  
 Module certified to withstand extreme wind (3800 Pascal) and snow loads (6000 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%
- ◆ Annual degradation: 0.55%
- ◆ 25 years of linear warranty
- ◆ 12 years of product warranty

www.qsuperpower.com    www.qsupersolar.com

### Certifications and Standards



E-MAIL: SALES@QSUPERPOWER.COM

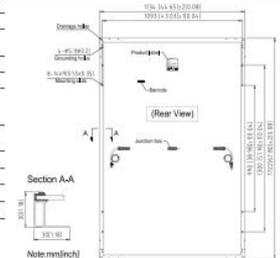
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QSM-HXXXW - C54/S 390-410W

### Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm x 91mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches)
Weight	21.0 kg (46.3 lbs)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm <sup>2</sup> , (-): 350 mm (+): 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 VDC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W



### Electrical Characteristics

Module Type	QSM-H410W - C54/S		QSM-H405W - C54/S		QSM-H400W - C54/S		QSM-H395W - C54/S		QSM-H390W - C54/S	
	STC	NMOT								
Testing Condition	410	300.6	405	306.0	400	302.3	395	298.6	390	294.9
Maximum Power (Pmax/W)	31.59	29.2	31.38	29.0	31.18	28.8	30.98	28.6	30.76	28.4
Optimum Operating Voltage (Vmp/V)	12.98	10.62	12.91	10.56	12.83	10.50	12.76	10.44	12.69	10.38
Optimum Operating Current (Imp/A)	37.45	35.2	37.24	35.0	37.04	34.8	36.84	34.6	36.62	34.4
Open Circuit Voltage (Voc/V)	13.88	11.16	13.81	11.10	13.73	11.04	13.66	10.98	13.59	10.93
Short Circuit Current (Isc/A)	21.0	20.7	20.5	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Module Efficiency (%)										

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5, NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s. Tolerance of Pmax is within ±1.2%.

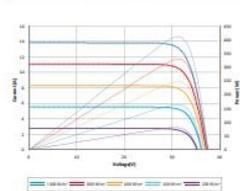
### Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.050%/°C

### Packing Configuration

Container	40' HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755 × 1120 × 1255 mm
Packaging box weight	794 kg

### Graphs



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