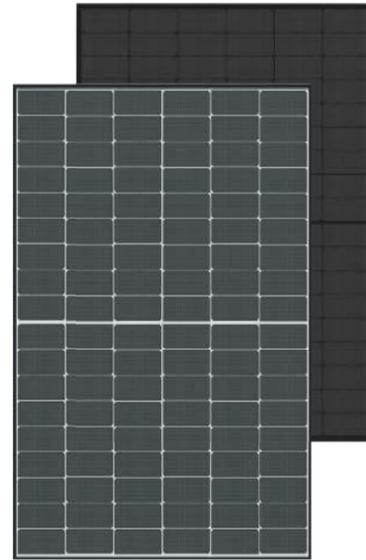


Mono 182N 108 HALF CELLS 415-435W



HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: QSM-HNTXXXW - C54/S



POWER OUTPUT
415-435W

MAX EFFICIENCY
22.3%

Features

High module conversion efficiency
Module efficiency up to **22.3%** achieved through advanced cell technology and manufacturing process

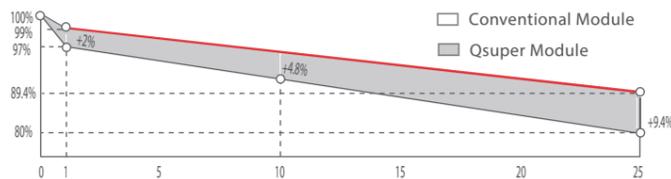
Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

Extended wind and snow load tests
Module certified to withstand extreme wind (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: 1%
- ◆ Annual degradation: 0.40%
- ◆ 25 years of linear warranty
- ◆ 15 years of product warranty

Certifications and Standards



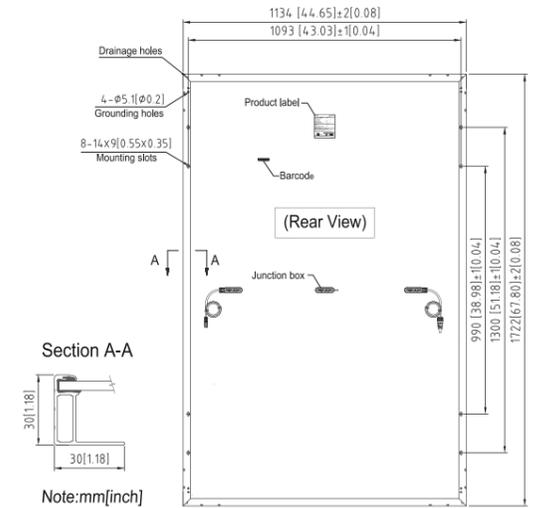
Mono 182N 108 HALF CELLS 415-435W



QSM-HNTXXXW - C54 415-435W/S

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm x 91 mm
No. of Cells	108 (6 x 18)
Dimensions	1722 x 1134 x 30 mm (67.8 x 44.6 x 1.2 inches)
Weight	21.0 kgs (46.3 lbs.)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm ² , (-) 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 V DC (IEC)
Connectors	STP-XC4
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W



Electrical Characteristics

Module Type	QSM-HNT435W- C54/S		QSM-HTN430W- C54/S		QSM-HNT425W- C54/S		QSM-HNT420W- C54/S		QSM-HNT415W- C54/S	
	STC	NMOT								
Testing Condition										
Maximum Power (Pmax/W)	435	332.5	430	328.7	425	325.0	420	321.1	415	317.3
Optimum Operating Voltage (Vmp/V)	32.51	30.3	32.33	30.2	32.15	30.0	31.96	29.9	31.78	29.7
Optimum Operating Current (Imp/A)	13.38	10.96	13.30	10.89	13.22	10.82	13.14	10.75	13.06	10.68
Open Circuit Voltage (Voc/V)	38.85	36.9	38.72	36.8	38.59	36.6	38.46	36.5	38.33	36.4
Short Circuit Current (Isc/A)	14.33	11.55	14.25	11.49	14.17	11.42	14.09	11.36	14.01	11.30
Module Efficiency (%)	22.3		22.0		21.8		21.5		21.3	

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%;

Temperature Characteristics

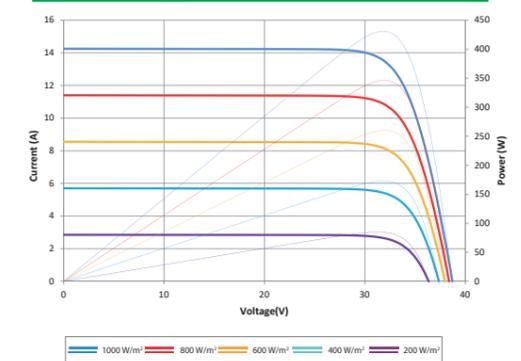
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

Packing Configuration

Container	40' HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755x1120x1255 mm
Packaging box weight	794 kg

Graphs

Current-Voltage & Power-Voltage Curve (4355)



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