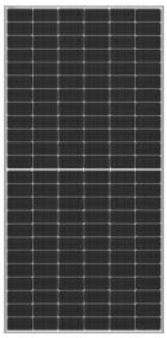
Mono 182N 144 HALF CELLS 570-590W

QSUPER

HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: QSM-HNT XXXW - C72/S



POWER OUTPUT
570-590W

MAX EFFICIENCY
22.84%

Features

High module conversion efficiency
Module efficiency up to **22.84%** achieved through advanced cell technology and manufacturing process

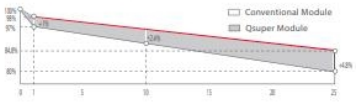
Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

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

Certifications and Standards

www.qsuperpower.com www.qsupersolar.com

E-MAIL:SALE@QSUPERPOWER.COM

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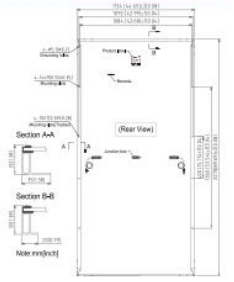
QSM-HNT XXXW - C72/S 570-590W

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm x 91 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 35 mm (89.7 × 44.6 × 1.4 inches)
Weight	27.5 kgs (60.6 lbs.)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm², (-) 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	1000/1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W



Electrical Characteristics

Module Type	QSM-HNTS90W- C72/S		QSM-HNTS85W- C72/S		QSM-HNTS80W- C72/S		QSM-HNTS75W- C72/S		QSM-HNTS70W- C72/S	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	590	445	585	441	580	437	575	433	570	430
Optimum Operating Voltage (Vmp/V)	43.71	41.05	43.53	40.86	43.35	40.70	43.17	40.54	42.99	40.37
Optimum Operating Current (Imp/A)	13.50	10.83	13.44	10.79	13.38	10.74	13.32	10.69	13.26	10.64
Open Circuit Voltage (Voc/V)	52.63	40.00	52.47	39.88	52.31	39.76	52.15	39.63	51.99	39.51
Short Circuit Current (Isc/A)	14.13	11.41	14.07	11.36	14.01	11.31	13.95	11.26	13.89	11.21
Module Efficiency (%)	22.84		22.56		22.45		22.26		22.07	

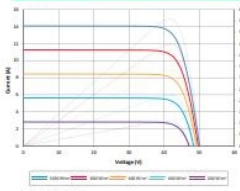
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.045%/°C

Graphs

Current-Voltage & Power-Voltage Curve (575)



Packing Configuration

Container	40 'HQ
Pieces per pallet	31
Pallets per container	20
Pieces per container	620
Packaging box dimensions	2310×1120×1255 mm
Packaging box weight	902 kg

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