

QSUN-144MS 430-450W

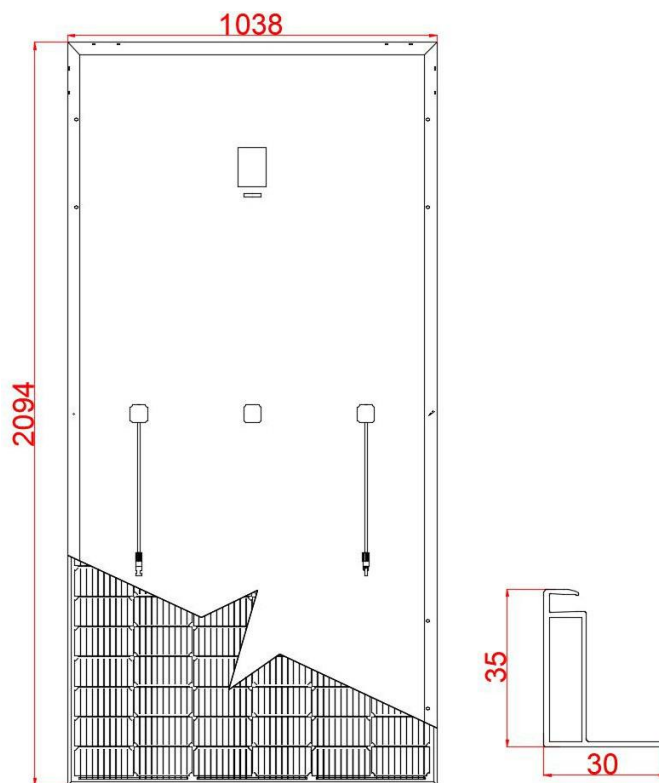


Specification

Model Type	QN-430M	QN-435M	QN-440M	QN-445M	QN-450M
Peak Power-Pmax (W)	430	435	440	445	450
Open Circuit Voltage-Voc (V)	48.5	48.7	48.9	49.1	49.3
Short Circuit Current-Isc (A)	11.37	11.45	11.54	11.62	11.74
Maximum Power Voltage-Vmp (V)	41.0	41.2	41.4	41.6	41.8
Maximum Power Current-Imp (A)	10.49	10.56	10.63	10.70	10.77
Module Efficiency - η_m (%)	19.8	20.0	20.2	20.5	20.7
Temperature Coefficient of Isc				+0.055%/°C	
Temperature Coefficient of Voc				-0.289%/°C	
Temperature Coefficient of Pmax				-0.380%/°C	
Standard Testing Condition (STC)	Irradiance: 1000W/m ²		Temperature: 25°C		AM=1.5

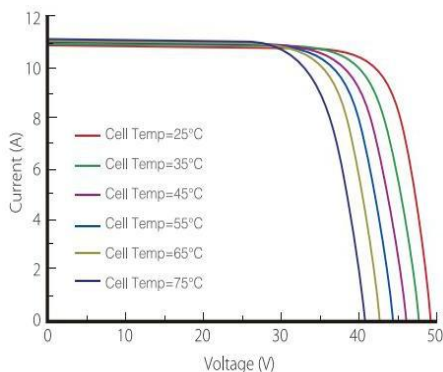
Mechanical Characteristics

Cell Size	166×83 mm
No. of Cells	144pcs (6×24)
Dimension	2094×1038×35×30 mm
Weight	23Kg
Glass	3.2mm High Transmission, Low Iron
Frame	Anodized Aluminum Alloy
Junction Box	IP68Rated
Internal Diodes	3 Bypass Diodes
Max Load	5400Pa
Pachaging	30pcs/pallet 660pcs/40'HC

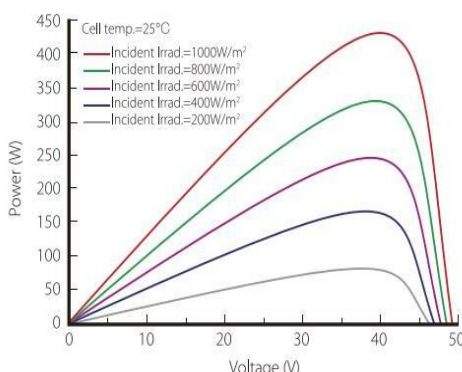


Operating Parameters

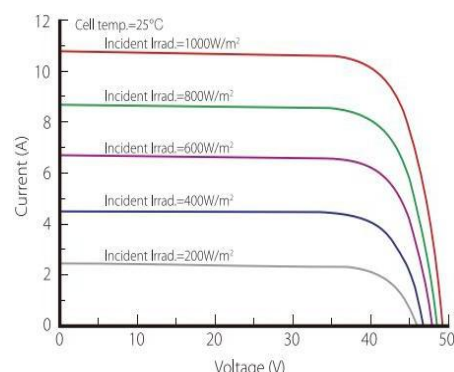
Maximum System Voltage	1500V DC
Power Tolerance	0 to +3%
Maximum Series Fuse Rating	15A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C - +85°C
Safety Class	Class II



Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve