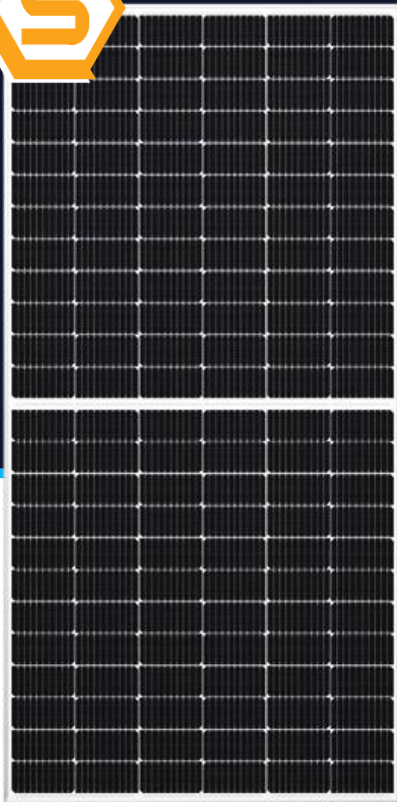
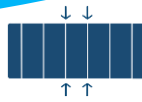




SICES SOLAR
SM SERIES



MONO PERC
SM-440~450M-144MX



144 9BB MONO HC CELLS



PERC TECHNOLOGY



POWER TOLERANCE ~+5W

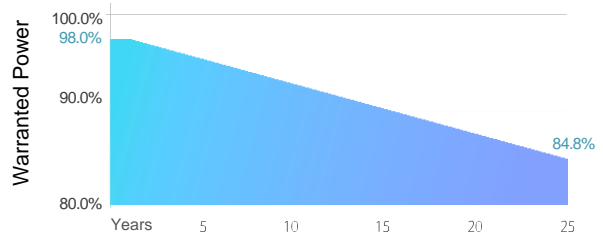


BETTER SHADING TOLERANCE

Configuration with high-efficiency PERC cells, 9BB half-cell technology allows greater efficiency and less effect of rising shadows energy production.

12 Years
Product
warranty

25 Years
Linear
performance
warranty



Certificates

- UL61730-1:2017
- UL61730-2:2017
- ISO9001:2015 Quality management systems



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CDMX 06600

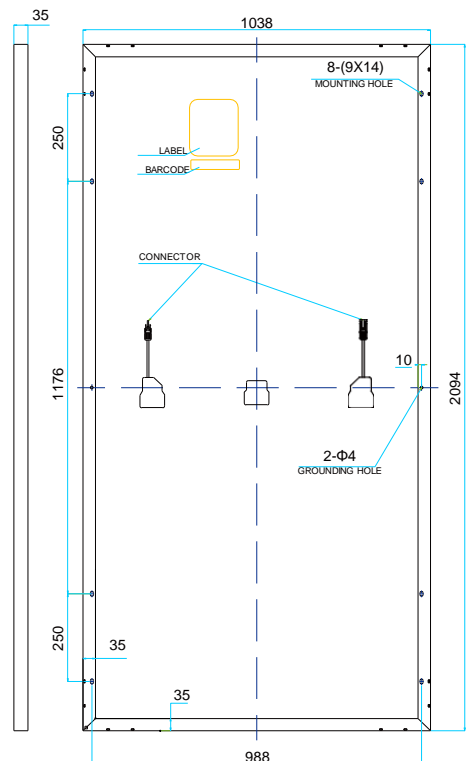
STC ELECTRICAL PARAMETERS

	SM-440M-144MX	SM-445M-144MX	SM-450M-144MX
Max. Power Output Pmax (W)	440	445	450
Open Circuit Voltage Voc (V)	50.05	50.26	50.43
Short Circuit Current Isc (A)	11.22	11.29	11.36
Max. Power Voltage Vmp (V)	41.67	41.87	42.06
Max. Power Current Imp (A)	10.56	10.63	10.70
Module efficiency (%)	20.24	20.47	20.70
Maximum System Voltage (V)	1500	1500	1500
Power Tolerance (W)	~+5	~+5	~+5
Operating Temperature (°C)	-40 ~+85	-40 ~+85	-40 ~+85
Max. Over Current (A)	25.00	25.00	25.00

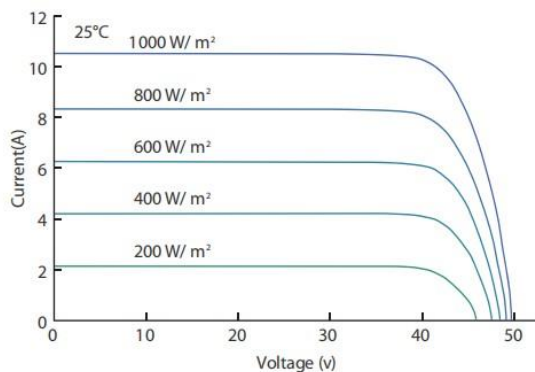
STC (Standard Test Condition): Irradiance 1000W/m² , Cell Temperature 25 °C, Air Mass 1.5

MECHANICAL PARAMETERS

Cell Type	144 (6X24) Mono 166X83mm 9BB
Dimension	2094X1038X35mm
Weight	26.0Kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Encapsulated	Glass/EVA/Cells/TPT
Relative Humidity	0 a 100%
Maximum Static Load, Front	5400pa



I-V CURVES



TEMPERATURE COEFFICIENTS

Pmax (γ_{Pmp})	-(0.36±0.05)%/K
Voc (β_{Voc})	-(0.29±0.02)%/K
Isc (γ_{Pmp})	+(0.05±0.005)%/K