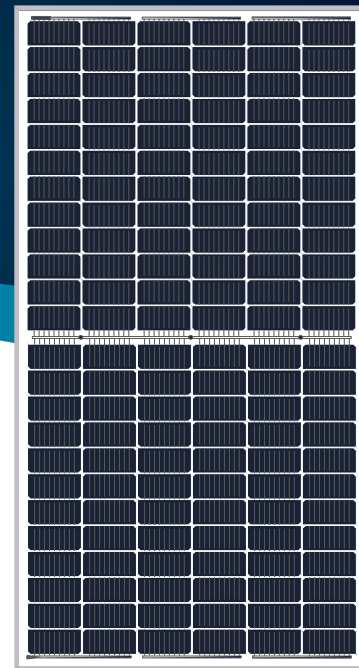


SM-72 MLC 166 SERIES 72 CELLS

430-450w



20.4%
Max efficiency



15 YEARS Guarantee on product material and workmanship



166*83mm
Monocrystalline solar cells



25 YEARS Linear power output warranty

KEY FEATURES



100% double EL test enabling remarkable reduction of hidden crack rate of modules



Positive power tolerance (3~ +10W) guaranteed



Lower risk of hot spot effects



Significantly lower LCOE and BoS cost savings



Low Light Features
Higher performance under low light environment.



9 Bus Bar
More uniform current collection capability, reducing the current heat loss of the internal cells.



PID Protection
Ensure the attenuation probability caused by PID phenomenon is minimized

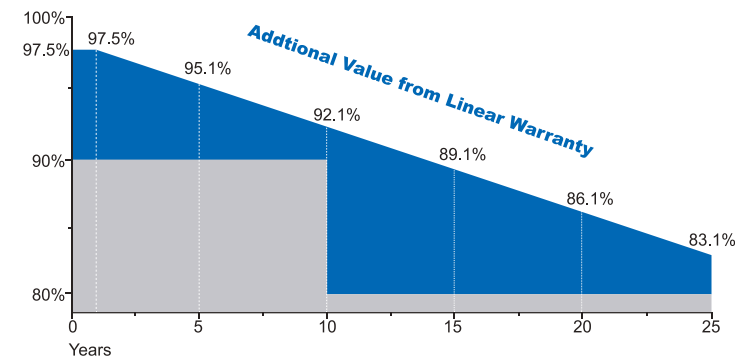
MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system

OHSAS 18001: International standard for occupational health and safety assessment system

WARRANTY



INSURANCE



PRODUCT CERTIFICATES



166 MONO HALF CELL | 9BB

Electric Characteristics

Model of modules	SM-430-72MLC		SM-435-72MLC		SM-440-72MLC		SM-445-72MLC		SM-450-72MLC	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power— P_{mp} (W)	430W	318W	435W	322W	440W	326W	445W	330W	450W	334W
Open-circuit voltage— V_{oc} (V)	49.2V	45.9V	49.4V	46.1V	49.6V	46.3V	49.8V	46.5V	50.0V	46.7V
Short-circuit current— I_{sc} (A)	11.19A	9.02A	11.26A	9.08A	11.33A	9.13A	11.40A	9.19A	11.47A	9.25A
Maximum power voltage— V_{mp} (V)	40.6V	37.5V	40.8V	37.7V	41.0V	37.9V	41.2V	38.1V	41.4V	38.3V
Maximum power current— I_{mp} (A)	10.6A	8.5A	10.67A	8.56A	10.74A	8.61A	10.81A	8.67A	10.88A	8.73A
Module efficiency— η_m (%)	19.5%		19.7%		19.9%		20.2%		20.4%	

STC: Irradiance 1000 W/m², 25°C, AM1.5

NOCT: Irradiance 800 W/m², 20°C, wind velocity 1m/s

Temperature Characteristics

Temperature coefficient at maximum power	-0.37%/ °C
Temperature coefficient of Voc	-0.29%/ °C
Temperature coefficient of Isc	+0.05%/ °C
Current operating temperature	-40~+85 °C
Rated operating temperature of cells	45±2 °C

Structural Characteristics

Module dimensions	2108x1046x40mm
Weight	24kg
No. of Half-cells	144(6x24)
Cell	Mono crystalline 166x83mm
Glass	3.2mm AR coating tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68, three diodes
Output wire	4.0 mm ² , wire length: 1200mm or Customized
Connector	MC4 compatible
Mechanical load	Snow load 5400Pa/Wind load 2400Pa

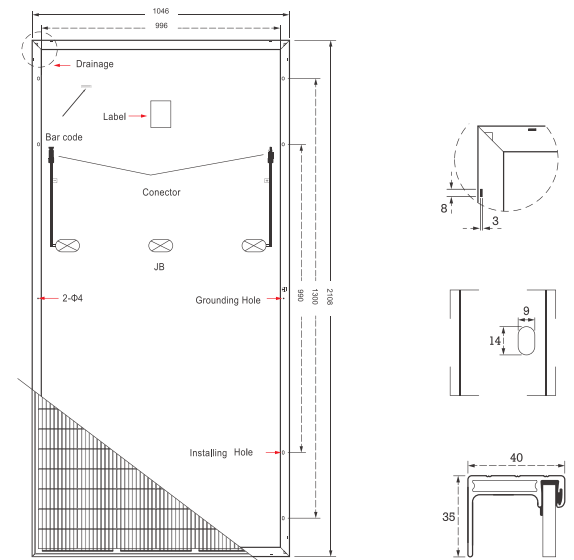
Working Characteristics

Power tolerance(W)	(3,+10)
Maximum system voltage(V)	1000V/1500V
Maximum rated fuse current (A)	20

Packaging Configuration

Container	20GP	40HQ
Quantity per pallet	26	27
Pallets per container	10	22
Quantity per container	260	616

Engineering Drawings



IV Curves

