Quality Maker



M6/166mm Cell . 144 Half-Cell Layout

Assembled with the M6 wafer based high efficiency cells, Series 4 solar modules feature the innovative twin-panel design and the advanced technologies of half-cut cell, 9 busbars and round wire ribbon interconnection reducing the hot spot risk and shading effect, increasing the power output and resulting in higher reliability and performance than conventional modules.







Half Cut Cell Technology



MBB Technology



Anti-PID Low-LID Performance



Less Hot Spot Shading Effects



Low Power Temperature Coefficient



Lower BOS & LCOE

Comprehensive Certificates

ISO9001:2015 QMS

- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
 IEC61215/IEC61730 Standard quality







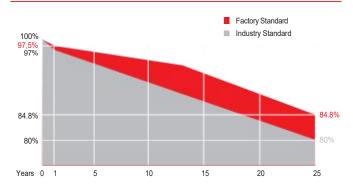








Linear performance Warranty

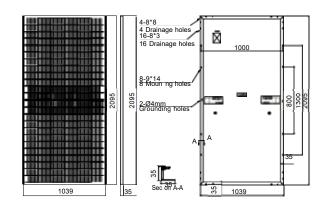




Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	Mono				
No. of Cells	144 (6x24)				
Dimensions	2095 x 1039 x 35mm				
Weight	23.0kgs				
Front Glass	3.2mm coated tempered glass				
Frame	Anodized aluminium alloy				
Junc on Box	Ip68 rated (3 by pass diodes)				
	4.0mm ²				
Output Cables	300mm (+) / 300mm (-)				
	Length can be customized				
Connectors	Mc4 compa ble				
Mechanical load test	5400Pa				



LNSU-450M/I-V

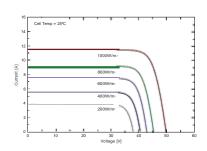
ELECTRICAL PARAMETERS										
POWER CLASS	435M		440M		445M		450M		455M	
	STC	NOCT								
Maximum power (Pmax)	435W	321W	440W	324W	445W	327W	450W	330W	455W	333W
Open CircuitVoltage (Voc)	49.40V	45.48V	49.60V	45.51V	49.79V	45.54V	49.98V	45.56V	50.17V	45.59V
Short Circuit Current (Isc)	11.36A	9.09A	11.42A	9.16A	11.48A	9.22A	11.54A	9.29A	11.60A	9.35A
Voltage at Maximum power (Vmpp)	40.81V	37.56V	41.01V	37.67V	41.20V	37.77V	41.40V	37.88V	41.59V	37.98V
Current Maximum Power (Impp)	10.66A	8.55A	10.73A	8.60A	10.80A	8.66A	10.87A	8.71A	10.94A	8.77A
MODULE EFFICIENCY (%)	19.	98%	20.2	21%	20.4	14%	20.6	67%	20.9	90%

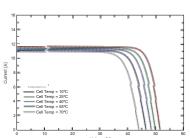
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

I-V CURVE

PACKING CONFIGURATION Container 20'GP 40'HQ Pieces per pallet 31 31 Pallets per container 5 22 Pieces per container 155 682





OPERATING CHARACTERISTICS		TEMPERATURE CHARACTERISTICS				
Opera ng Module Temperature	-40°C to + 85°C	Nominal Opera ng Temperature (Noct)	45±2°C			
Maximun SystemVoltage	1500 DC (IEC)	Temperature Coefficient of Pmax	−0.36%°C			
Maximun Series Fuse Ra ng	20A	Temperature Coefficient ofVoc	−0.28%°C			
Power Tolerance	0/+5W	Temperature Coefficient of Isc	+0.05%°C			