



Enjoy Sunshine Enjoy Life



# MONOCRYSTALLINE SOLAR MODULE

## MONOCRYSTALLINE 182 HALF CELL SERIES

### The solar panel characteristics



#### 1500 Voltage

1500V system voltage design, compared with 1000V system greatly reduces BOS cost.



#### 10BB

More uniform current collection ability, reduce the current heat loss of the battery inside the module; Beautiful appearance, more suitable for roof installation.



#### PID Resistant

Tested in accordance to the draft standard IEC 62804, our PV modules have demonstrated resistance against PID(Potential Induced Degradation), which translates to security for your investment.



#### Low light performance

Through the use of excellent glass and battery surface velvet technology to achieve low light environment excellent performance.



#### Load Capacity

The whole assembly has been certified with wind load of 2400Pa and snow load of 5400Pa, pass extra 8000Pa snow resistance.



#### Customizable

Solar panels can be customized as your requirements.

### QJ Solar linear warranty



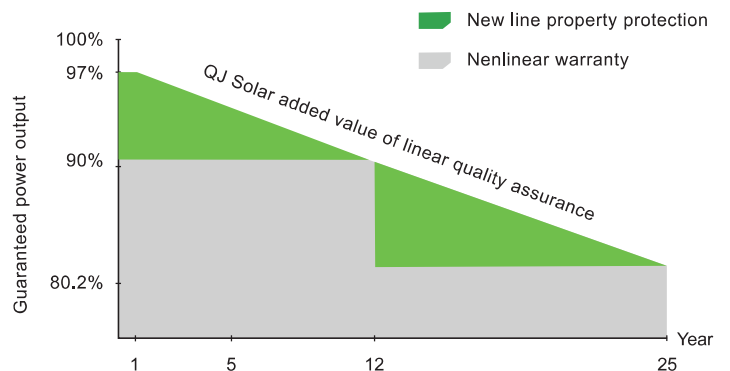
10 Years

Limited Product Warranty



25 Years

Performance Warranty



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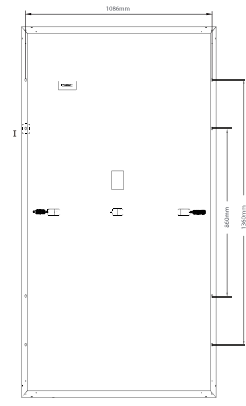
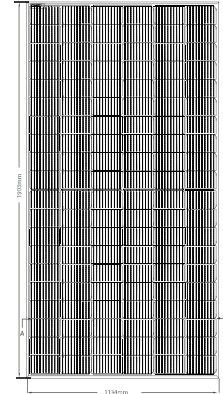
Module Diagram:

ELECTRICAL PERFORMANCE			QJM435	QJM440	QJM445	QJM450	QJM455	QJM460
			-120H(10BB) -120H(10BB)-120H(10BB)-120H(10BB)-120H(10BB)-120H(10BB)					
Power output	$P_{max}$	<b>Wp</b>	435	440	445	450	455	460
Power output tolerance	$\Delta P_{max}$	<b>W</b>	0 + 3					
Voltage at Pmax	$V_{mpp}$	<b>V</b>	34.6	34.69	34.78	34.85	34.94	35.08
Current at Pmax	$I_{mpp}$	<b>A</b>	12.58	12.68	12.79	12.92	13.02	13.11
Open-circuit voltage	$V_{oc}$	<b>V</b>	40.9	41	41.1	41.2	41.3	41.4
Short-circuit current	$I_{sc}$	<b>A</b>	13.46	13.57	13.69	13.82	13.94	14.03
Module Efficiency	<b>Eff.</b>	<b>%</b>	20.2	20.4	20.6	20.8	21	21.2

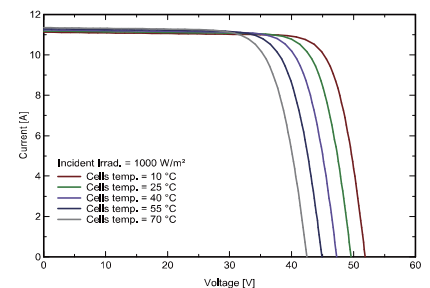
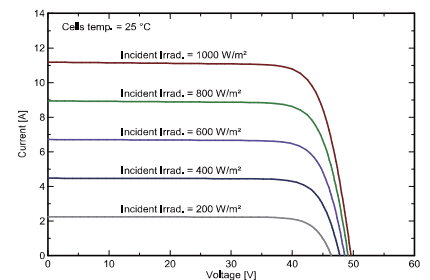
TEMPERATURE & MAXIMUM RATINGS	
Temperature coefficient of Pmax	-0.39%/C
Temperature coefficient of Voc	-0.32%/C
Temperature coefficient of Isc	0.055%/C
Operational Temperature	-45 C ~ +85 C
Maximum System Voltage	1000/1500VDC
Max Series Fuse Rating	15A

MECHANICAL CHARACTERISTICS	
Front cover (material / thickness)	low-iron, high transmission, tempered AR coated glass, 3.2mm
Backsheet (color)	white/black
Solar Cell (quantity / material / dimension)	120(6*10+6*10), monocrystalline, 10BB/9BB, 182*91mm
Frame (material / color)	anodized aluminum alloy, silver/black
Junction box ( protection degree)	IP 67, 3 Schottky bypass diodes
Cables & Plug connectors	300mm, 4mm <sup>2</sup> & MC4 compatible
Module Dimensions (L / W / H)	1909*1134*35/1915*1133*35mm
Module Weight	23kg

PACKING DETAILS		
Container	20' GP	40' GP
Pieces per pallet	31PCS+4PCS	31PCS
Pallets per container	5P	24P
Pieces per container	175PCS	744PCS



Electrical Curves:



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