



Enjoy Sunshine. Enjoy Life

BIFACIAL DOUBLE GLASS MONOCRYSTALLINE SOLAR MODULE

MONOCRYSTALLINE 144-CELL SERIES



The solar panel characteristics



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



9BB
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.

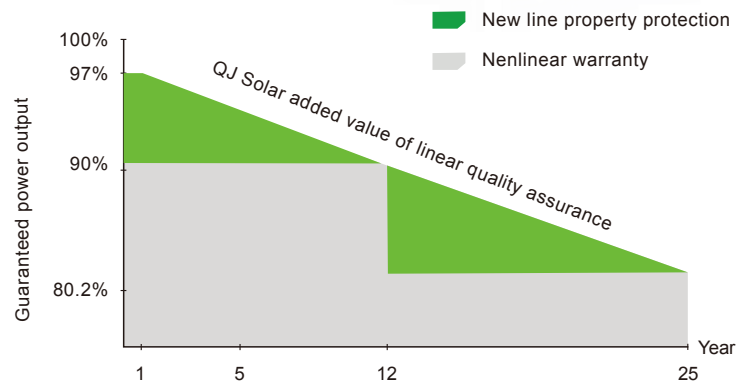
QJ Solar linear warranty



10 Years
Limited Product Warranty



25 Years
Performance Warranty



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ELECTRICAL PERFORMANCE

Module Type			QJM430 -144HDG		QJM435 -144HDG		QJM440 -144HDG		QJM445 -144HDG	
	P_{max}	Wp	Front 430	Back 320	Front 435	Back 324	Front 440	Back 328	Front 445	Back 332
Power output	ΔP_{max}	W	0 + 3							
Power output tolerance	V_{mpp}	V	41.1	38.0	41.3	38.2	41.4	38.3	41.6	38.5
Voltage at Pmax	I_{mpp}	A	10.47	8.43	10.54	8.49	10.63	8.57	10.70	8.63
Current at Pmax	V_{oc}	V	49.4	45.1	49.6	45.3	49.7	45.4	49.9	45.6
Open-circuit voltage	I_{sc}	A	11.11	8.89	11.18	9.02	11.27	9.10	11.34	9.17
Short-circuit current	Eff.	%	19.18		19.40		19.63		19.85	
Module Efficiency										

TEMPERATURE & MAXIMUM RATINGS

Temperature coefficient of Pmax	-0.4%/C
Temperature coefficient of Voc	-0.30%/C
Temperature coefficient of Isc	0.06%/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, 2mm
Backsheet (color)	2mm tempered glass
Solar Cell (quantity / material / dimension)	144(6*12+6*12), monocrystalline, 166*166mm
Frame (material / color)	with frame
Junction box (protection degree)	IP 67, 3 Schottky bypass diodes
Cables & Plug connectors	4mm ² & MC4 compatible
Module Dimensions (L / W / H)	2132*1052*30mm
Module Weight	29.0kg

PACKING DETAILS

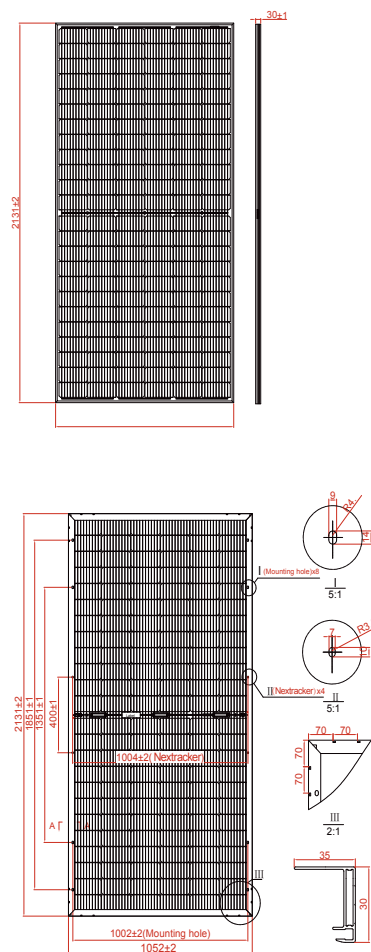
Container	20' GP	40' GP
Pieces per pallet	30PCS	30PCS
Pallets per container	10P	20P
Pieces per container	300PCS	600PCS

QJ SOLAR Cixi City Rixing Electronics Co., Ltd.

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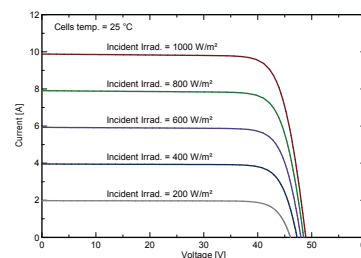
Module Diagram:



Electrical Curves:

QJM435-144HDG

I-V characteristics at different irradianations



I-V characteristics at different temperature

(AM1.5, 1000W/m²)

