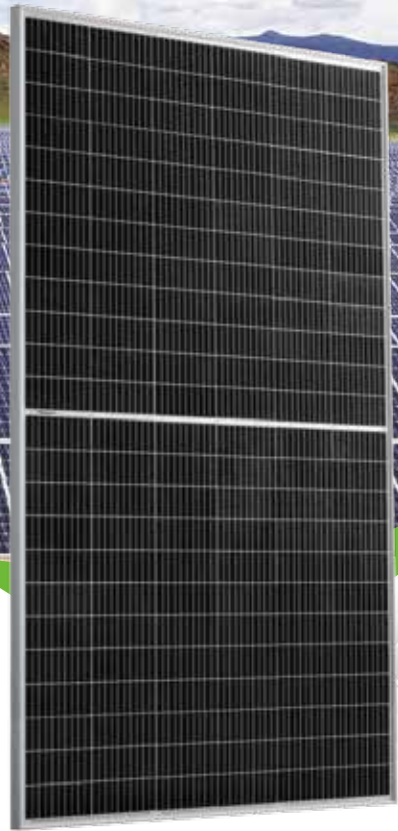




Enjoy Sunshine. Enjoy Life



# 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.

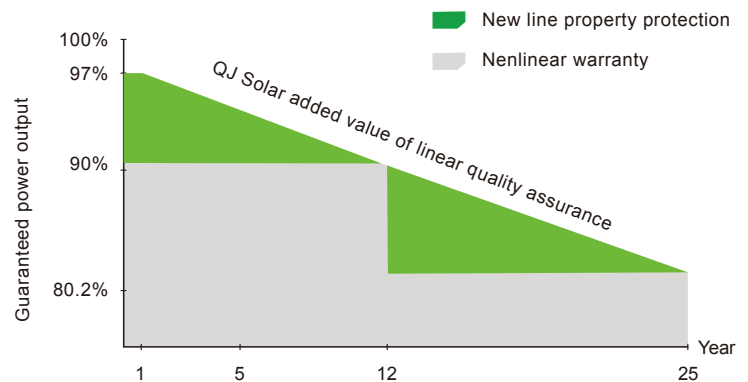
### QJ Solar linear warranty



**10 Years**  
Limited Product Warranty



**25 Years**  
Performance Warranty



# MONOCRYSTALLINE 144-CELL SERIES



## ELECTRICAL PERFORMANCE

Module Type			QJM395 -144H	QJM400 -144H	QJM405 -144H	QJM410 -144H	QJM415 -144H	
Power output	$P_{max}$	Wp	395	400	405	410	415	
Power output tolerance	$\Delta P_{max}$	W	0 + 3					
Voltage at Pmax	$V_{mpp}$	V	40.36	40.46	40.6	40.68	40.73	
Current at Pmax	$I_{mpp}$	A	9.78	9.89	9.99	10.12	10.24	
Open-circuit voltage	$V_{oc}$	V	48.50	48.60	48.76	48.90	49.01	
Short-circuit current	$I_{sc}$	A	10.41	10.55	10.62	10.71	10.83	
Module Efficiency	Eff.	%	19.56	19.81	20.05	20.30	20.55	

## 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

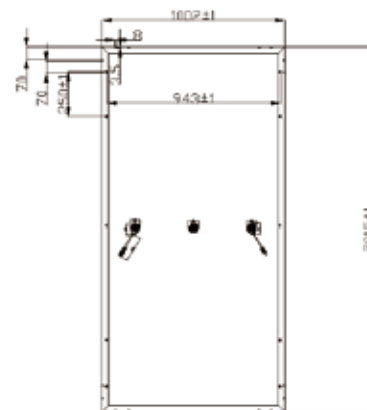
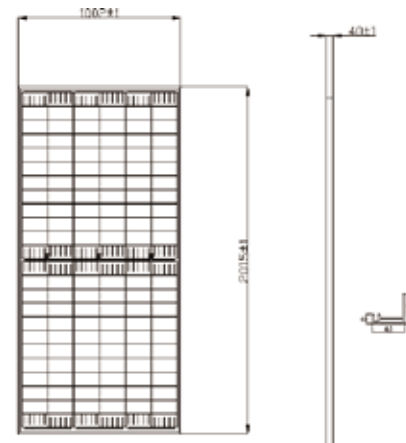
## MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron, high transmission, tempered AR coated glass, 3.2mm
Backsheet (color)	white/black
Solar Cell (quantity / material / dimension)	144(6*12+6*12), monocrystalline, 9BB, 158.75*79.375mm
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)	2015*1002*40mm
Module Weight	23.0kg

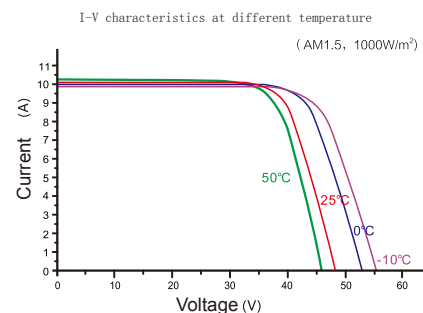
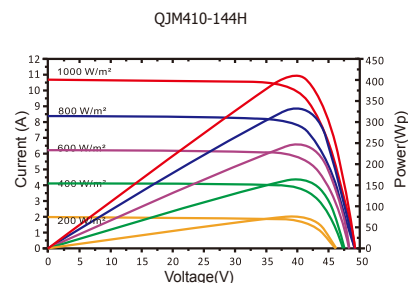
## PACKING DETAILS

Container	20' GP	40' GP
Pieces per pallet	27PCS	27PCS
Pallets per container	10P	22P
Pieces per container	270PCS	594PCS

Module Diagram:



Electrical Curves:



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