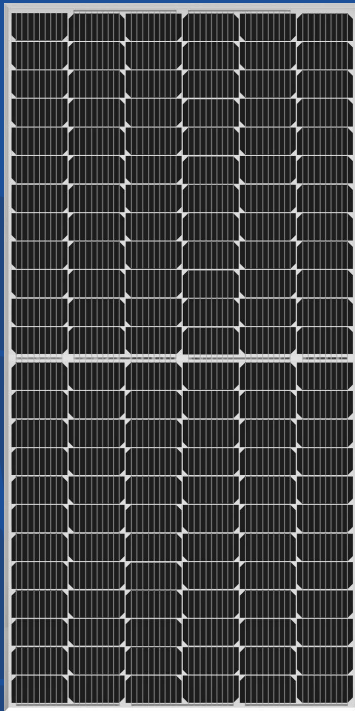


Maximum Efficiency

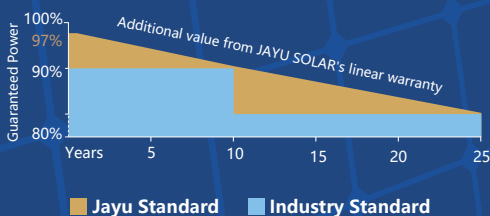
20.93%

Output Power

425-455W



Linear Performance Warranty



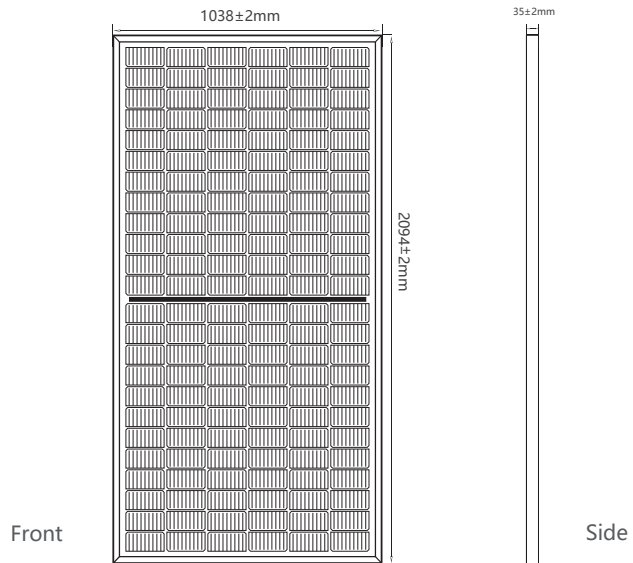
JY425-455M6-Fai-9

HALF-CELL Multi-Busbar 144CELL MONO 166PERC SOLAR MODULE

Features

- Large Size Cell and Multi Grid Battery Technology: higher output power, effectively reduce the cost of single watt system;
- Half-cut Cell Technology: New circuit design, Lower internal current, Lower resistance loss;
- High-strength Frame: 2400 Pa wind load, 5400 Pa snow load, 25 mm hail stones at 82 km/h;
- Improved Durability and Reliability: Extreme resistance to corrosions caused by moisture, ammonia, sand, salt mist, acid, alkali, etc;
- Significantly Lower the Risk of Hot Spot: Reduce power loss, Increase module output power;
- Excellent Anti-PID Performance: Stringent quality control, High reliability, Internal testing far beyond the industry standards.

Engineering Drawings



Mechanical Characteristics

Cell Type	Mono Perc 166×166mm
Number of cells	144 (12×12)
Dimensions	2094×1038×35mm
Weight	23.5kg
Front Glass	Coated tempered glass
Backsheet	White
Frame Material	Anodized Aluminium Alloy
Fire Safety Class	Class C
Junction Box	IP67, 3 Diodes
Connector	MC4 Compatible
Cables	PV1-F 4MM ²
Encapsulant Material	EVA

Electrical Characteristics(STC)

Maximum Power-PMAX (Wp)	425	430	435	440	445	450	455
Output Power Tolerance	0~+5Wp						
Optimum Operating Voltage(Vmp)(V)	40.5	40.7	40.9	41.1	41.3	41.5	41.7
Optimum Operating Current(Imp)(A)	10.50	10.57	10.64	10.71	10.78	10.85	10.92
Open Circuit Voltage (Voc) (V)	48.3	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current (Isc) (A)	11.23	11.31	11.39	11.46	11.53	11.60	11.66
Module Efficiency (%)	19.55%	19.78%	20.01%	20.24%	20.47%	20.70%	20.93%

STC: Irradiance of 1000 W/m², AM=1.5, module temperature of 25 °C

Electrical Characteristics(NOCT)

Maximum Power-PMAX (Wp)	317	321	325	329	332	336	340
Optimum Operating Voltage(Vmp)(V)	37.7	37.9	38.1	38.3	38.5	38.6	38.8
Optimum Operating Current(Imp)(A)	8.42	8.47	8.53	8.59	8.64	8.70	8.75
Open Circuit Voltage (Voc) (V)	45.3	45.5	45.7	45.8	46.0	46.2	46.4
Short Circuit Current (Isc) (A)	9.08	9.15	9.21	9.27	9.33	9.38	9.43

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Temperature Ratings

NOCT(Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of PMAX	-0.40%/°C
Temperature Coefficient of VOC	-0.32%/°C
Temperature Coefficient of ISC	+0.05%/°C

Maximum Ratings

Operational Temperature	-40°C ~ 85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	20A

Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Certificates

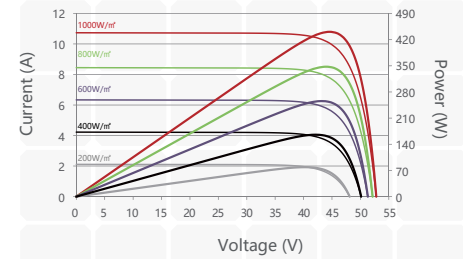
TüV, CQC, CE

Packaging Configuration

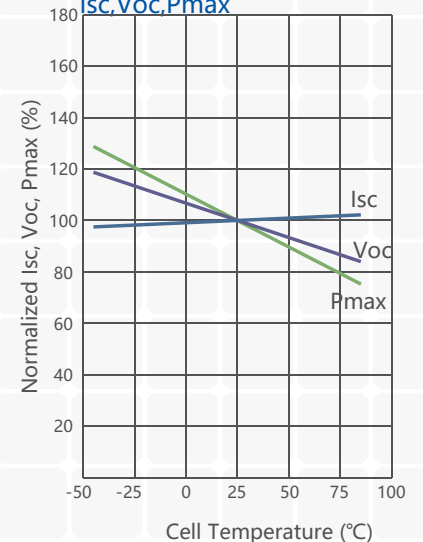
Container	40'HQ	20'GP
Piece per Pallet	30	
Pallet per Container	22	5
Piece per Container	660	150



Current-Voltage & Power-Voltage Curve(450W)



Temperature Dependence of Isc, Voc, Pmax



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