

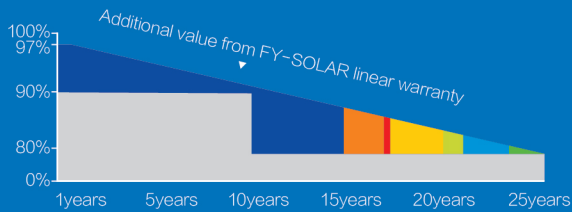
# 9BB Mono



## FY-144-390MH

FY-144-390MH    FY-144-395MH  
 FY-144-400MH    FY-144-405MH  
 FY-144-410MH

Linear power guarantee provided by FY-SOLAR  
 Standard warranty



**19.7%**  
 output efficiency

**10year**  
 Material & Workmanship warranty

**410W**  
 Highest power output

**25year**  
 Linear power output warranty

### Certifications for Incentives

- World-class manufacture of crystalline silicon photovoltaic modules
- Fully automatic facility and world -class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001:2015 and OHSAS:18001 2007
- Tested for harsh environments(salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2-68)
- Long term reliability tests  
 2\*100% inspection ensuring defect-free modules.

### 25 Year Linear Power Guarantee

- **Commercial**  
 10 years on material and manufacturing defects
- **Performance**  
 Power not less than 90% of power peak during the first 10 years  
 Power not less than 80% of power peak during the subsequent 25 years



## Electrical Characteristics at STC

Type	FY-144-390MH	FY-144-395MH	FY-144-400MH	FY-144-405MH	FY-144-410MH
Maximum Power-Pmax(W)	390W	395W	400W	405W	410W
Tolerance Value for Power-%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage-Vmpp(V)	41.1	41.4	41.7	42.0	42.3
Maximum Power Current-Imp(A)	9.49	9.55	9.60	9.65	9.69
Open Circuit Voltage-Voc(V)	49.3	49.5	49.8	50.1	50.4
Short Circuit Current-Isc(A)	10.12	10.23	10.36	10.48	10.60
Module Efficiency- $\eta$	19.38%	19.63%	19.88%	20.13%	20.38%

Performance at STC: Irradiance of 1000W/m<sup>2</sup> , Module temperature 77 ± 3.6°F(25 ± 2°C)AM 1.5 Power measurement tolerance: ± 3%

## Electrical Characteristics at NOCT

Type	FY-144-390MH	FY-144-395MH	FY-144-400MH	FY-144-405MH	FY-144-410MH
Maximum Power-Pmax(W)	294W	298W	302W	306W	310W
Maximum Power Voltage-Vmpp(V)	39.1	39.3	39.6	39.8	40.0
Maximum Power Current-Imp(A)	7.54	7.60	7.66	7.72	7.76
Open Circuit Voltage(V)-Voc(V)	48.0	48.2	48.5	48.7	48.9
Short Circuit Current(A)-Isc(A)	8.02	8.09	8.16	8.22	8.26

Performance at NOCT: Irradiance 800W/m<sup>2</sup> , Ambient temperature 20°C, Wind speed 1m/S Power measurement tolerance: ± 3%

## Temperature Coefficients(TC)

Temperature Coefficient of VOC( $\beta$ )	-0.29%/°C
Temperature Coefficient of ISC( $\alpha$ )	+0.048%/°C
Temperature Coefficient of P max	-0.35%/°C

## Permissible Operating Conditions

Maximum System Voltage	1000V
Operating Temperature Range	-40°C~+80°C
Maximum Surface Load Capacity	Test up to 5400pa according to IEC61215(Advanced test)
Resistance Against Hail	Maximum diameter of 1in.(25mm) impact speed of 51.5mph(23m/s)

## Mechanical specifications

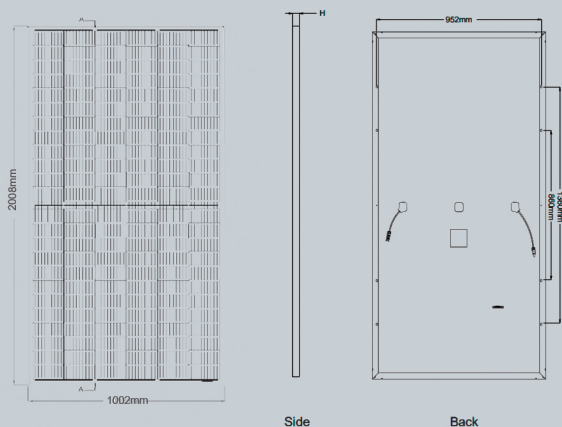
Cells	Monocrystalline cell with 9-busbars(6X24)
Junction Box	Ip67
Front Glass Thickness	3.2mm
Connecting Cable/Connector	MC4 compatible connector/TUV 1*4.0mm <sup>2</sup> (+)290mm,(-)145
Frame Dimension	2008×1002×35mm
Weight	22.5KG

## Packing Features

Frame Height	35mm
Qty/pallet(pcs)	27
Qty/40HC container(PCS)	594

## FY-144-390MH

### Engineering Drawings



### Electrical Performance & Temperature Dependence

