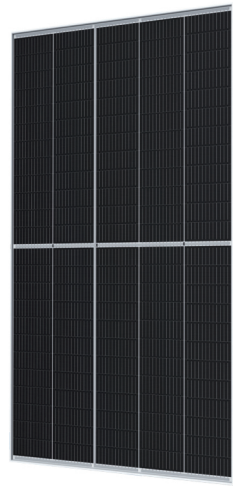


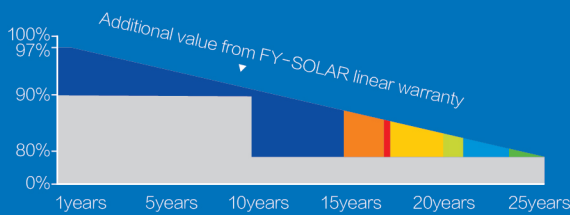
# 9BB Mono



## FY-120-400MH

FY-120-390MH    FY-120-395MH  
 FY-120-400MH    FY-120-405MH  
 FY-120-410MH

Linear power guarantee provided by FY-SOLAR  
 Standard warranty



**22%**  
 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-120-390MH	FY-120-395MH	FY-120-400MH	FY-120-405MH	FY-120-410MH
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)	33.88	34.14	34.39	34.64	34.89
Maximum Power Current-Imp(A)	11.52	11.58	11.64	11.70	11.76
Open Circuit Voltage-Voc(V)	40.69	41.00	41.30	41.60	41.90
Short Circuit Current-Isc(A)	12.21	12.27	12.34	12.40	12.47
Module Efficiency- $\eta$	20.3	20.5%	20.8%	21.1%	21.3%

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-120-390MH	FY-120-395MH	FY-120-400MH	FY-120-405MH	FY-120-410MH
Maximum Power-Pmax(W)	295.6W	299.4W	303.1W	306.9W	310.7W
Maximum Power Voltage-Vmpp(V)	31.44	31.68	31.91	32.15	32.38
Maximum Power Current-Imp(A)	9.40	9.45	9.50	9.55	9.60
Open Circuit Voltage(V)-Voc(V)	37.84	38.13	38.41	38.69	38.97
Short Circuit Current(A)-Isc(A)	10.01	10.07	10.12	10.17	10.22

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

## Temperature Coefficients(TC)

Temperature Coefficient of VOC( $\beta$ )	-0.30%/°C
Temperature Coefficient of ISC( $\alpha$ )	+0.050%/°C
Temperature Coefficient of P max	-0.038%/°C

## Permissible Operating Conditions

Maximum System Voltage	1500V
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

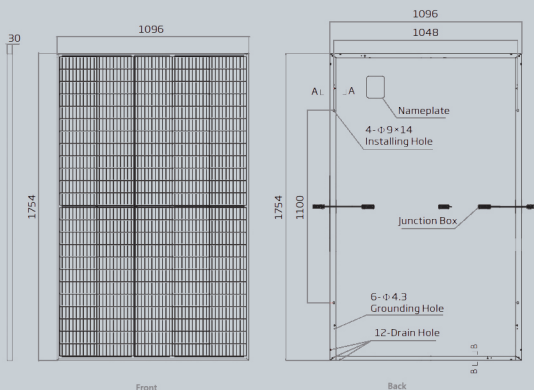
Cells	210 Monocrystalline cell with 9-busbars(120)
Junction Box	Ip67
Front Glass Thickness	3.2mm
Output Cables	anode 350mm, cathode 350mm or Customized Length
Frame Dimension	1754×1096×30mm
Weight	21.5KG

## Packing Features

Frame Height	30mm
Qty/pallet(pcs)	36
Qty/40HC container(PCS)	936

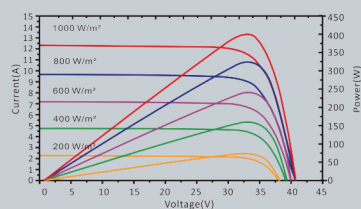
## FY-120-400MH

### Engineering Drawings



### Electrical Performance & Temperature Dependence

I-V characteristics at different irradiances



I-V characteristics at different temperatures

