

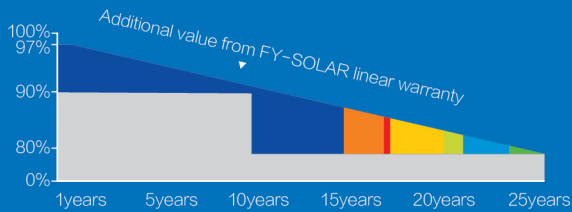
Mono



FY-120-610MH

FY-120-585MH FY-120-590MH
 FY-120-595MH FY-120-600MH
 FY-120-605MH FY-120-610MH

Linear power guarantee provided by FY-SOLAR
 Standard warranty



21%
output efficiency

10year
Material & Workmanship warranty

610W
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-120-585MH	FY-120-590MH	FY-120-595MH	FY-120-600MH	FY-120-605MH	FY-120-610MH
Maximum Power-Pmax(W)	585W	590W	595W	600W	605W	610W
Tolerance Value for Power-%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage-Vmpp(V)	33.79	33.99	34.19	34.39	34.59	34.79
Maximum Power Current-Impp(A)	17.32	17.36	17.41	17.45	17.50	17.54
Open Circuit Voltage-Voc(V)	40.89	41.09	41.29	41.19	41.69	41.89
Short Circuit Current-Isc(A)	18.38	18.43	18.48	18.53	18.58	18.64
Module Efficiency- η	20.67	20.85%	21.02%	21.20%	21.38%	21.55%

Performance at STC: Irradiance of 1000W/m² , Module temperature 77 ± 3.6°F(25 ± 2°C)AM 1.5 Power measurement tolerance: ± 3%

Electrical Characteristics at NOCT

Type	FY-120-585MH	FY-120-590MH	FY-120-595MH	FY-120-600MH	FY-120-605MH	FY-120-610MH
Maximum Power-Pmax(W)	443W	447W	451W	455W	459W	463W
Maximum Power Voltage-Vmpp(V)	31.39	31.59	31.79	31.99	32.19	32.39
Maximum Power Current-Impp(A)	14.12	14.16	14.19	14.23	14.26	14.03
Open Circuit Voltage(V)-Voc(V)	38.49	38.69	38.89	39.09	39.29	39.49
Short Circuit Current(A)-Isc(A)	14.82	14.86	14.89	14.95	15.00	15.06

Performance at NOCT: Irradiance 800W/m² , Ambient temperature 20°C, Wind speed 1m/SPower measurement tolerance: ± 3%

Temperature Coefficients(TC)

Temperature Coefficient of VOC(β)	-0.30%/°C
Temperature Coefficient of ISC(α)	+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

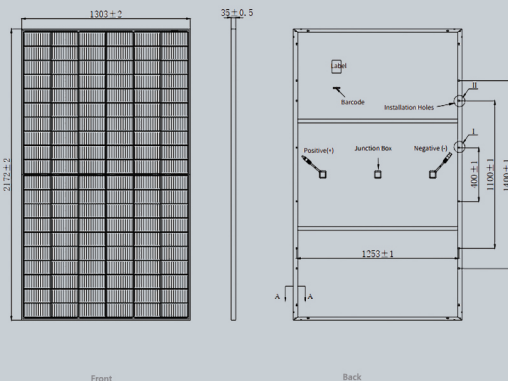
Cells	210 Monocrystalline cell (120)
Junction Box	Ip68
Front Glass Thickness	3.2mm
Output Cables	anode 350mm, cathode 350mm or Customized Length
Frame Dimension	2172×1303×35mm
Weight	31KG

Packing Features

Frame Height	35mm
Qty/pallet(pcs)	31
Qty/40HC container(PCS)	558

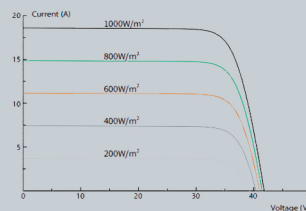
FY-120-610MH

Engineering Drawings



Electrical Performance & Temperature Dependence

I-V characteristics at different irradiances



P-V characteristics at different temperatures

