

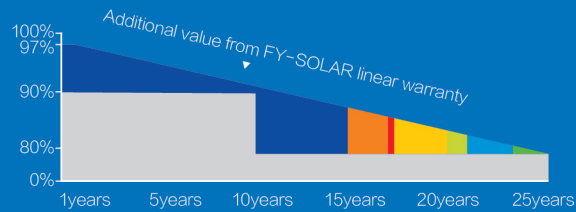
Mono



FY-150-490MH

FY-150-485MH	FY-150-490MH
FY-150-495MH	FY-150-500MH
FY-150-505MH	FY-150-510MH

Linear power guarantee provided by FY-SOLAR
Standard warranty



21%

output efficiency

10year

Material & Workmanship warranty

510W

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-150-485MH	FY-150-490MH	FY-150-495MH	FY-150-500MH	FY-150-505MH	FY-150-510MH
Maximum Power-Pmax(W)	485W	490W	495W	500W	505W	510W
Tolerance Value for Power-%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage-Vmpp(V)	42.19	42.39	42.59	42.79	42.99	43.19
Maximum Power Current-Imp(A)	11.50	11.56	11.63	11.69	11.75	11.81
Open Circuit Voltage-Voc(V)	51.09	51.29	51.49	51.69	51.89	52.09
Short Circuit Current-Isc(A)	12.05	12.13	12.20	12.28	12.35	12.42
Module Efficiency- η	20.30%	20.51%	20.72%	20.93%	21.14%	21.35%

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-150-485MH	FY-150-490MH	FY-150-495MH	FY-150-500MH	FY-150-505MH	FY-150-510MH
Maximum Power-Pmax(W)	367W	371W	375W	379W	383W	387W
Maximum Power Voltage-Vmpp(V)	39.79	39.99	40.19	40.39	40.59	40.79
Maximum Power Current-Imp(A)	9.23	9.28	9.34	9.39	9.44	9.49
Open Circuit Voltage(V)-Voc(V)	48.19	48.39	48.59	48.79	48.99	49.19
Short Circuit Current(A)-Isc(A)	9.72	9.78	9.85	9.91	9.97	10.03

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)	-0.29%/°C
Temperature Coefficient of ISC(α)	+0.048%/°C
Temperature Coefficient of P max	-0.35%/°C

Permissible Operating Conditions

Maximum System Voltage	1000V/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

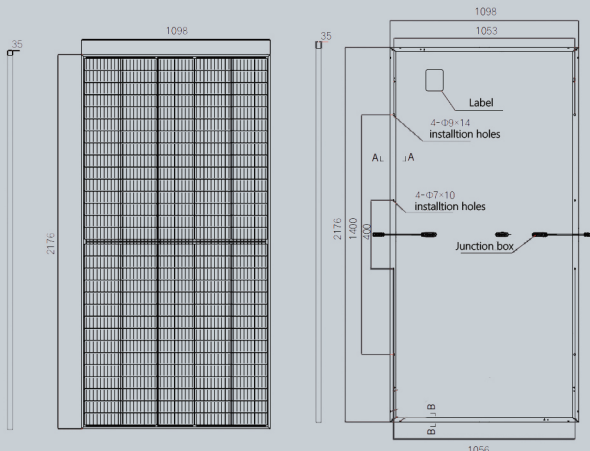
Cells	Monocrystalline cell (210,5X30)
Junction Box	Ip68
Front Glass Thickness	3.2mm
Connecting Cable/Connector	MC4 compatible connector/TUV 1*4.0mm ² Length 300mm(+),300mm(-) or customized
Frame Dimension	2176×1098×35mm
Weight	27.0KG

Packing Features

Frame Height	35mm
Qty/pallet(pcs)	31
Qty/40HC container(PCS)	620

FY-150-490MH

Engineering Drawings



Electrical Performance & Temperature Dependence

