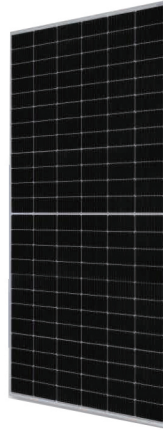


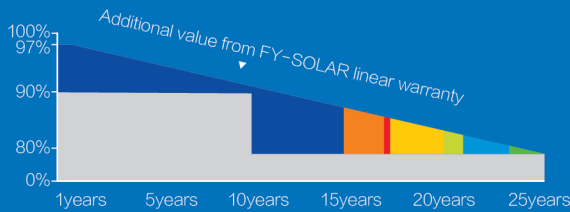
Perc Mono



FY-144-540MH

FY-144-530MH FY-144-535MH
 FY-144-540MH FY-144-545MH
 FY-144-550MH

Linear power guarantee provided by FY-SOLAR
 Standard warranty



22%
output efficiency

10year
Material & Workmanship warranty

550W
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-144-530MH	FY-144-535MH	FY-144-540MH	FY-144-545MH	FY-144-550MH
Maximum Power-Pmax(W)	530W	535W	540W	545W	550W
Tolerance Value for Power-%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage-Vmpp(V)	41.31	41.47	41.64	41.80	41.96
Maximum Power Current-Imp(A)	12.83	12.90	12.97	13.04	13.11
Open Circuit Voltage-Voc(V)	49.30	49.45	49.60	49.75	49.90
Short Circuit Current-Isc(A)	13.72	13.79	13.86	13.93	14.00
Module Efficiency- η	20.5%	20.7%	20.9%	21.1%	21.3%

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-144-530MH	FY-144-535MH	FY-144-540MH	FY-144-545MH	FY-144-550MH
Maximum Power-Pmax(W)	401W	405W	408W	412W	416W
Maximum Power Voltage-Vmpp(V)	38.57	38.78	38.99	39.20	39.43
Maximum Power Current-Imp(A)	10.39	10.43	10.47	10.51	10.55
Open Circuit Voltage(V)-Voc(V)	46.8	46.31	46.43	46.55	46.68
Short Circuit Current(A)-Isc(A)	11.01	11.05	11.09	11.13	11.09

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
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

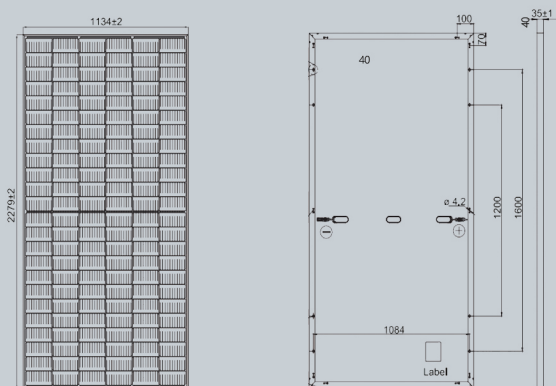
Cells	Monocrystalline half cell (182,6X24) Multi busbar(10/11 busbars)
Junction Box	Ip68, 3 bypass diodes
Front Glass Thickness	3.2mm
Connecting Cable/Connector	MC4 compatible connector/TUV 1*4.0mm ² Length 300mm(+), 400mm(-)
Frame Dimension	2274×1134×35mm
Weight	28.5KG

Packing Features

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

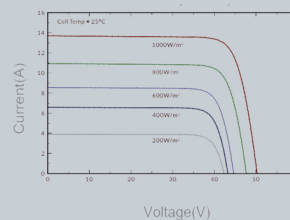
FY-144-540MH

Engineering Drawings



Electrical Performance & Temperature Dependence

Current-Voltage curves(540W)



Current-Voltage curves(540W)

