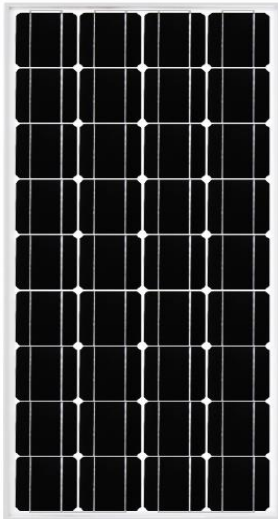


Mono-Crystalline Solar PV Module 36 Cells Series



Performance

- Water resistant junction box with bypass diode and high strength polymer sheet on module's rear ensures module is sealed from moisture and mechanical damage
- High transmissivity low-iron toughened glass
- Excellent weak light performance
- Unique drainage hole design and anodized aluminum frame

Quality and Reliability

- Superior reliability with guaranteed 0~3% power output tolerance
- 10 years warranty on materials and workmanship,
- 25 years linear power warranty, 97% in the first year, 91% in 10th year, and ending with 80% in 25th year
- Cells are individually tested, characterized and modulated prior to interconnection
- Test and produce standard: IEC61215, IEC61730, ISO 9001:2008, ISO14001:2004, OHSAS18001:2007, TIS18001:2011, TIS1843:2553, TIS2580:2555

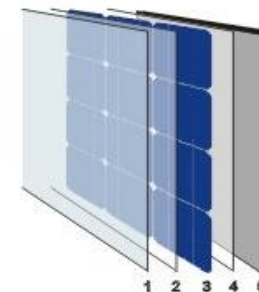
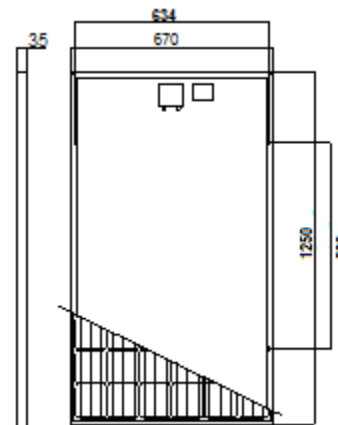
Electrical Characteristics

Specification	FX-110M	FX-115M	FX-120M	FX-125M	FX-130M	FX-135M	FX-140M
Rating power at STC (Wp)	110W	115W	120W	125W	130W	135W	140W
Open circuit voltage (Voc)	22.1V	22.2V	22.4V	22.6V	22.8V	23.0V	23.1V
Short circuit current (Isc)	6.96A	7.18A	7.42A	7.67A	7.73A	7.83A	7.88A
Rated voltage (Vm)	17.52V	17.61V	17.70V	17.78V	17.86V	17.93V	17.99V
Rated current (Im)	6.28A	6.53A	6.78A	7.03A	7.28A	7.53A	7.78A
Module efficiency (%)	13.13%	13.73%	14.32%	14.93%	15.52%	16.12%	16.72%
Power tolerance	0 - 3 % (W)						
Temperature coefficient of Pm	-0.45%/K						
Temperature coefficient of Isc	+0.052%/K						
Temperature coefficient of Voc	-0.33%/K						
Maximum system voltage	DC600v (UL) / DC1000V (IEC)						

All technical data at STC: AM1.5; 1000W/m²; 25°C

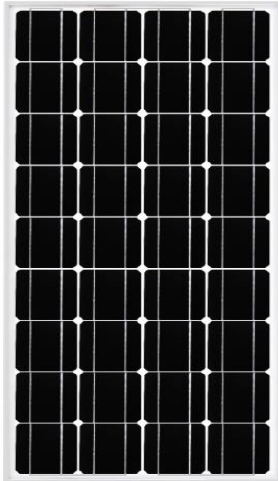
Mechanical Characteristics

Solar Cell	Monocrystalline
No. of cells	36 (4X9)
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C
Operation temperature	From -40 to +85°C
Typical Application	12V DC
Max series fuse rating	10A
Max wind resistance	2400Pa
Surface max. load capacity	5400Pa
Weight	9.5kg
Dimension	1250X670X35MM



1. Tempered glass
2. EVA
3. Cells
4. EVA
5. Back sheet

Mono-Crystalline Solar PV Module 36 Cells Series



Performance

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- ♦ High transmissivity low-iron toughened glass
- ♦ Excellent weak light performance
- ♦ Unique drainage hole design and anodized aluminum frame

Quality and Reliability

- ♦ Superior reliability with guaranteed 0~3% power output tolerance
- ♦ 10 years warranty on materials and workmanship,
- ♦ 25 years linear power warranty, 97% in the first year, 91% in 10th year, and ending with 80% in 25th year
- ♦ Cells are individually tested, characterized and modulated prior to interconnection
- ♦ Test and produce standard: IEC61215, IEC61730, ISO 9001:2008, ISO14001:2004, OHSAS18001:2007, TIS18001:2011, TIS1843:2553, TIS2580:2555

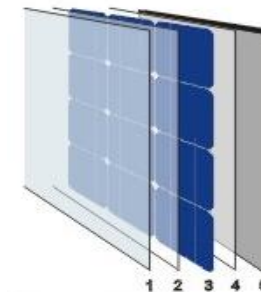
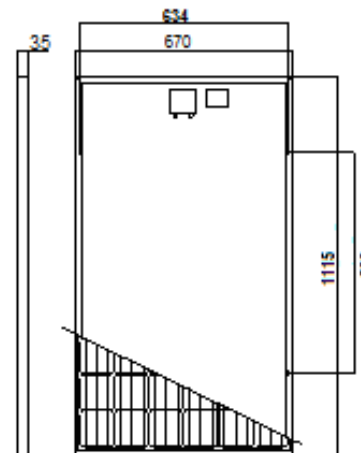
Electrical Characteristics

Specification	FY1-100M	FY1-105M	FY1-110M	FY1-115M	FY1-120M	FY1-125M	FY1-130M
Rating power at STC (Wp)	100W	105W	110W	115W	120W	125W	130W
Open circuit voltage (Voc)	22.1V	22.2V	22.4V	22.6V	22.8V	23.0V	23.1V
Short circuit current (Isc)	6.01A	6.20A	6.39A	6.62A	6.67A	6.84A	7.00A
Rated voltage (Vm)	17.48V	17.59V	17.68V	17.77V	17.86V	17.93V	18.01V
Rated current (Im)	5.72A	5.97A	6.22A	6.47A	6.72A	6.97A	7.22A
Module efficiency (%)	13.39%	14.06%	14.72%	15.39%	16.06%	16.73%	17.40%
Power tolerance	0 - 3 % (W)						
Temperature coefficient of Pm	-0.45%/K						
Temperature coefficient of Isc	+0.052%/K						
Temperature coefficient of Voc	-0.33%/K						
Maximum system voltage	DC600v (UL) / DC1000V (IEC)						

All technical data at STC: AM1.5; 1000W/m²; 25°C

Mechanical Characteristics

Solar Cell	Monocrystalline
No. of cells	36 (4X9)
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C
Operation temperature	From -40 to + 85°C
Typical Application	12V DC
Max series fuse rating	10A
Max wind resistance	2400Pa
Surface max. load capacity	5400Pa
Weight	8.5kg
Dimension	1115X670X35MM



1. Tempered glass
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5. Back sheet

Mono-Crystalline Solar PV Module

Model	Electricity Performance Parameter					Module Size L x W x H (mm)	Installation Size			Weight (Kgs)
	Wp (W)	Vmp (V)	Imp (A)	Isc (A)	Voc (V)		A (mm)	B (mm)	Hole size (mm)	
F-90M	90	18.1	4.98	5.6	22.2	836X670X35	458	634	4-φ8.0	~7.5
F-80M	80	18.0	4.40	4.87	22.1	758X670X35	458	634	4-φ8.0	~6.8
F-60M	60	18.0	3.34	3.62	22.0	656X670X35	458	634	4-φ6.0	~5.5
F-50M	50	18.0	2.68	2.9	22.0	540X670X35	280	634	4-φ6.0	~4.8
F-40M	40	18.0	2.24	2.62	22.0	490X670X25	Without installation hole			~3.8
F-30M	30	18.0	1.67	1.84	22.0	430X540X25				~3.1
F-20M	20	18.0	1.12	1.23	22.0	542X348X25				~2.2
F-10M	10	18.0	0.56	0.62	22.0	356X276X18				~1.3
FE-6M	6	18.0	0.34	0.37	22.0	316X190X18				~0.8
F-6M	6	18.0	0.34	0.37	22.0	276X232X18				~0.9
F-5M	5	18.0	0.28	0.31	22.0	276X232X18				~0.9

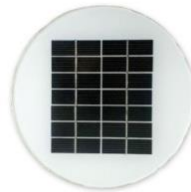
All technical data at STC: AM1.5; 1000W/m²; 25 °C

Performance

- ♦ Water resistant junction box and high strength polymer sheet on module's rear ensures module is sealed from moisture and mechanical damage
- ♦ High transmissivity low-iron toughened glass
- ♦ Excellent week light performance
- ♦ Unique drainage hole design and aluminum frame
- ♦ Maximum system voltage DC 600V

Quality and Reliability

- ♦ Superior reliability with guaranteed 0~3% power output tolerance
- ♦ 10 years warranty on materials and workmanship,
- ♦ 25 years linear power warranty, 97% in the first year, 91% in 10th year, and ending with 80% in 25th year
- ♦ Cells are individually tested, characterized and modulated prior to interconnection
- ♦ Test and produce standard: IEC61215, IEC61730, ISO 9001:2008, ISO14001:2004, OHSAS18001:2007, TIS18001:2011, TIS1843:2553, TIS2580:2555



F-3M



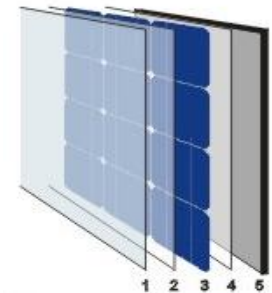
F-3M



F-30M



F-3M



1. Tempered glass
2. EVA
3. Cells
4. EVA
5. Back sheet