FEMI

440-460W

Single Crystalline Silicon Solar Modules

M10/182mm Cell.120 Half Cell Modules

The series of photovoltaic modules stands out through breakthrough innovation in large-sized M10 (182mm) solar cells, achieving the highest power generation and lowest LCOE. This makes the series of 5 modules the best choice for large solar power plants. The application of Ga-doped chip technology can significantly improve the performance of LID, while the latest integrated segmented carbon strip technology can improve power output and enhance the reliability of the modules in long-term use.We assure you 25 years guarantee of product power, 12 years of guarantee of product quality.

High Quality

25 Years Product Power Guarantee

12 Years Product Quality Assurance

Ga-doped

Half Cell Technology

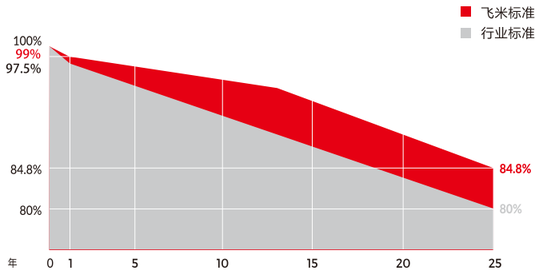
Multi-grid Line Technology

anti PID LID
Anti PID
Low LID Performance

Less impact of Hot Spot Occlusion

Lower BOS & LCOE Cost

Linear Warranty



Comprehensive Certificates

ISO9001:2015

SO14001:2015

ISO45001:201

IEC61215&IEC61730

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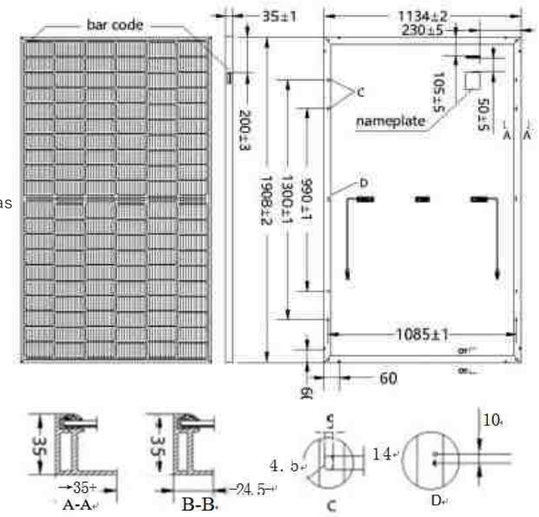
Anhui Femi New Energy Technology Co., Ltd

FEMI-NET® 440-460W Monocrystalline Silicon

◎ Structural Features

Type	Mono Silicon
No. of Cells	120(6x20)
Dimension	1908x1134x35mm
Weight	24/27KG
Front	Thickness 3.2/2.0 mm Coated Tempered Glas
Aluminum Frame	Anodized Aluminum Alloy
Junction box	Ip 68 (3 Bypass Diodes)
Connects Cable	4.0 Square Millimetre
	300 mm (+)/400 mm (−)
	Length can be customized
Plug-in Connector	Mc4 Compatible Plug Connector
Maximum Mechanical Load	5400 Pa

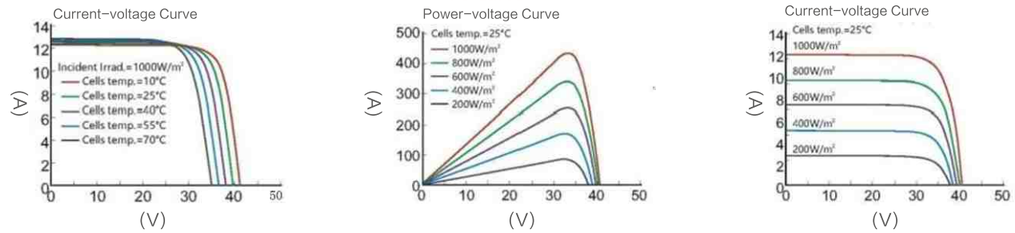


◎ Electrical Performance Parameters

Power Range	FEMI-440M		FEMI-445M		FEMI-450M		FEMI-455M		FEMI-460M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power(Pmax)	440W	329W	445W	333W	450W	337W	455W	341W	460W	345W
Open Circuit Voltage(Voc)	41.20V	38.36V	41.40V	38.56V	41.60V	38.76V	41.80V	38.96V	42.0V	39.16V
Short-circuit Current(Isc)	13.57A	10.89A	13.64A	10.95A	13.71A	11.01A	13.78A	11.08A	13.85A	11.14A
Peak Power Voltage(Vmpp)	34.25V	31.86V	34.45V	32.06V	34.65V	32.26V	34.85V	32.46V	35.05V	32.66V
Peak Power Current(Impp)	12.85A	10.33A	12.92A	10.39A	12.99A	10.45A	13.06A	10.51A	13.13A	10.57A
Module Efficiency(%)	20.53%		20.60%		20.80%		21%		21.3%	

Standard Test Conditions (STC); Irradiance 1000W/m ², Battery temperature 25 ℃, spectral AM1.5G
Nominal battery operating temperature (NOCT): irradiance 800W/m ², Environmental temperature 20 ℃, spectral AM1.5G, wind speed 1m/s

I-V Curve



◎ Operation Parameters

Ambient Temperature	−40℃~+85℃
Maximum System Voltage	1500V DC (IEC)
Maximum Fuse Rating	25A
Power Tolerance	0~+5W

◎ Temperature Feature

Nominal operating temperature(Noct)	45+2℃
Peak Power Temperature Coefficient	−0.350%℃
Open Circuit Temperature Coefficient	−0.270%℃
Short Circuit Current Temperature Coefficient	+0.048%℃