

405-420W

Single Crystalline Silicon Solar Modules

M10/182mm Cell. 108 Half Cell Modules

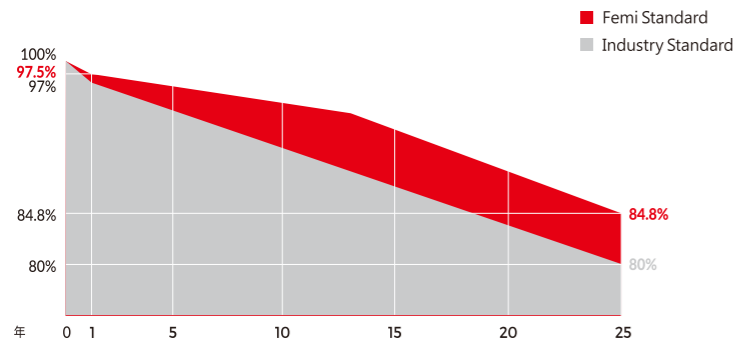
FEMI-NET® The series of photovoltaic modules stands out through breakthrough innovation in large-sized M10 (182mm) solar cells, achieving the highest power generation and lowest LCOE. This makes the series of 5 modules the best choice for large solar power plants. The application of Ga-doped chip technology 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



- Ga** Ga-doped
- anti PID LID** Anti PID Low LID Performance
- A** Less impact of Hot Spot Occlusion
- \$** Lower BOS & LCOE Cost
- Half Cell Technology
- Multi-grid Line Technology

Linear Warranty



Comprehensive Certificates

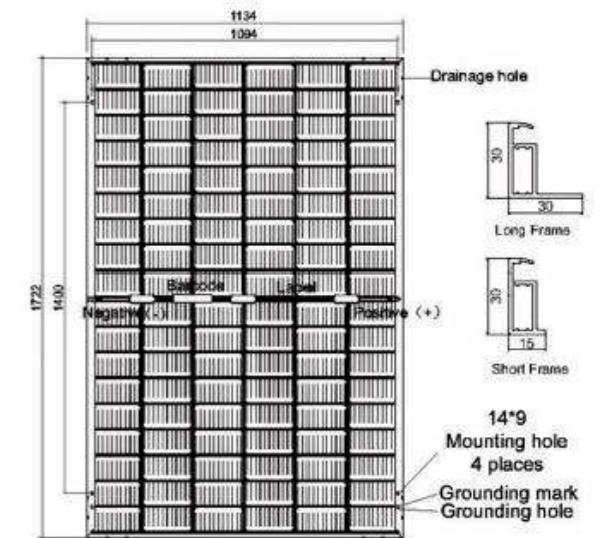
- ISO9001:2015
- SO14001:2015
- ISO45001:2018
- IEC61215&IEC61730
- TUV
- CE
- UL



FEMI-NET® 405-420W Monocrystalline Silicon

Structural Features

Type	Mono Silicon
No. of Cells	108(6x18)
Dimension	1722x1134x30mm
Weight	21.5/25.5Kg
Front	Thickness 3.2/2.0 mm coated tempered glass
Aluminum Frame	Anodized aluminum alloy
Junction box	Ip68(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

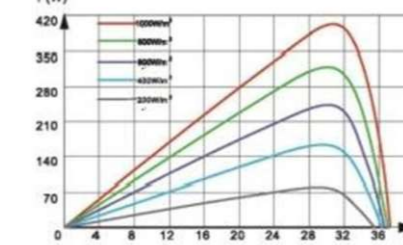


Electrical Performance Parameters

Power Range	FEMI-405M		FEMI-410M		FEMI-415M		FEMI-420M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power(Pmax)	405W	301 W	410W	305W	415W	309 W	420 W	312W
Open Circuit Voltage(Voc)	37.25V	35.29V	37.40V	35.43V	37.55V	35.57V	37.70V	35.71V
Short-circuit Current(Isc)	13.90A	11.22A	13.99A	11.29A	14.08A	11.36A	14.17A	11.43A
Peak Power Voltage(Vmpp)	31.41V	29.78V	31.57V	29.94V	31.73V	30.10V	31.89V	30.25V
Peak Power Current(Imp)	12.90A	10.11A	12.99A	10.19A	13.08A	10.27A	13.17A	10.34A
Module Efficiency(%)	20.7%		21%		21.2%		21.5%	

Standard Test Conditions (STC): Irradiance 1000W/m², Battery temperature 25 °C, spectral AM1.5G
Nominal battery operating temperature (NOCT): irradiance 800W/m², Environmental temperature 20 °C, spectral AM1.5G, wind speed 1m/s

I-V Curve Power-Voltage Curve (405W)



Operation Parameters

Ambient Temperature	-40°Cto~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Feature

Nominal operating temperature(Noct)	45 ± 2°C
Peak Power Temperature Coefficient	+0.063%/°C
Open Circuit Temperature Coefficient	-0.269%/°C
Short Circuit Current Temperature Coefficient	-0.335%/°C

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440-460W

Single Crystalline Silicon Solar Modules

M10/182mm Cell. 120 Half Cell Modules

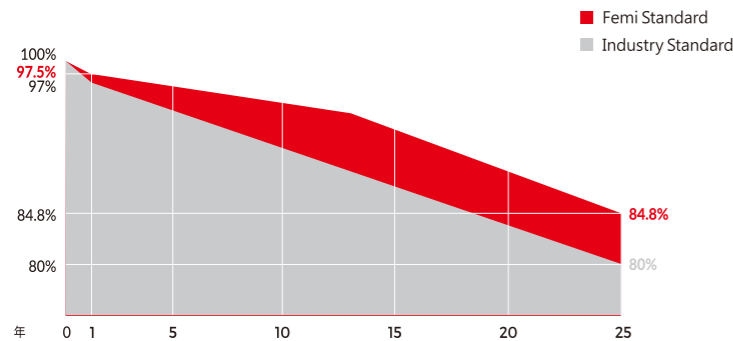
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High Quality



- Ga** Ga-doped
- anti PID LID** Anti PID Low LID Performance
- A** Less impact of Hot Spot Occlusion
- \$** Lower BOS & LCOE Cost
- Half Cell Technology**
- Multi-grid Line Technology**

Linear Warranty



Comprehensive Certificates

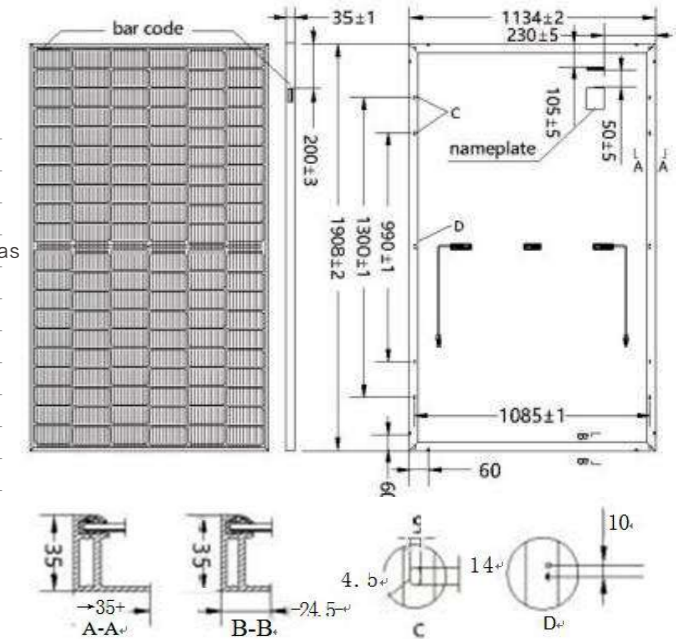
- ISO9001:2015
- SO14001:2015
- ISO45001:2018
- IEC61215&IEC61730
- TUV
- CE
- UL



FEMI-NET[®] 440-460W Monocrystalline Silicon

Structural Features

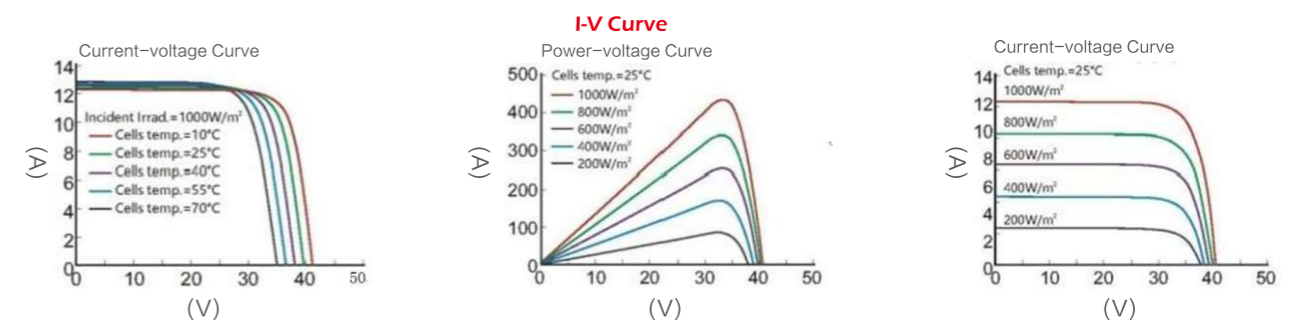
Type	Mono Silicon
No. of Cells	120(6x20)
Dimension	1908x1134x35mm
Weight	24/27Kg
Front	Thickness 3.2/2.0 mm Coated Tempered Glas
Aluminum Frame	Anodized Aluminum Alloy
Junction box	Ip 68 (3 Bypass Diodes)
	4.0 Square Millimetre
Connects Cable	300 mm (+)/400 mm (-)
	Length can be customized
Plug-in Connector	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(Imp)	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/m², Battery temperature 25 °C, spectral AM1.5G
Nominal battery operating temperature (NOCT): irradiance 800W/m², Environmental temperature 20 °C, spectral AM1.5G, wind speed 1m/s



Operation Parameters

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

Temperature Feature

Nominal operating temperature(Noct)	45±2°C
Peak Power Temperature Coefficient	-0.350%/°C
Open Circuit Temperature Coefficient	-0.270%/°C
Short Circuit Current Temperature Coefficient	+0.048%/°C

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535-555W

Single Crystalline Silicon Solar Modules

M10/182mm Cell. 144 Half Cell Modules

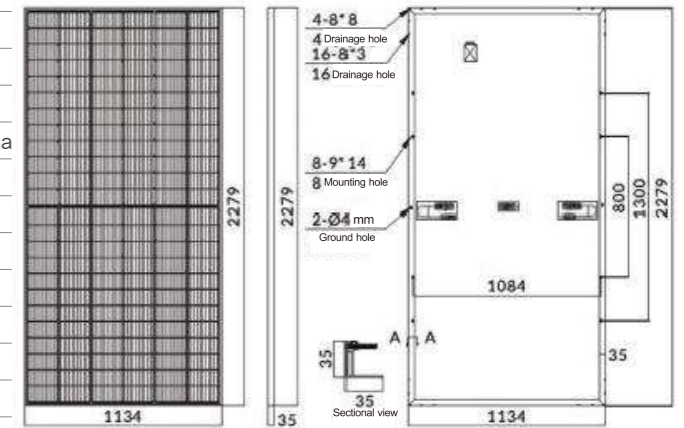
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High Quality



Structural Features

Type	Mono Silicon
No. of Cells	144(6x24)
Dimension	2279x1134x35mm
Weight	28/32.4Kg
Front	Thickness 3.2/2.0 mm Coated Tempered Gla
Aluminum Frame	Anodized Aluminum Alloy
Junction box	Ip68 (3 Bypass Diodes)
	4.0 Square Millimetre
Connects Cable	300 mm (+)/400 mm (-)
	Length can be customized
Plug-in Connector	Mc4 Compatible plug Connector
Maximum Mechanical Load	5400 Pa



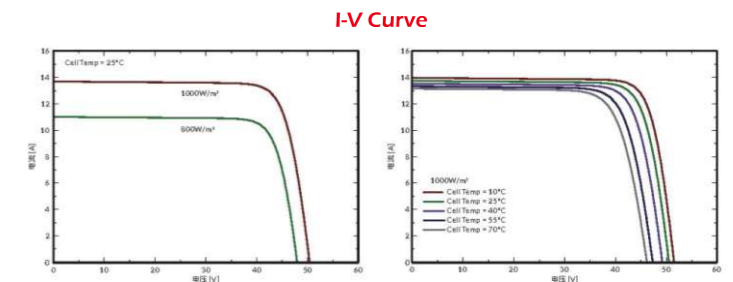
Electrical Performance Parameters

Power Range	FEMI-535M		FEMI-540M		FEMI-545M		FEMI-550M		FEMI-555M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power(Pmax)	535W	405W	540W	408W	545W	412W	550W	416W	555W	420W
Open Circuit Voltage(Voc)	49.45V	46.31V	49.60V	46.43V	49.75V	46.55V	49.90V	46.68V	50.05V	46.85V
Short-circuit Current(Isc)	13.79A	11.05A	13.86A	11.09A	13.93A	11.13A	14.00A	11.17A	14.07A	11.21A
Peak Power Voltage(Vmpp)	41.47V	38.78V	41.64V	38.99V	41.80V	39.20V	41.96V	39.43V	42.12V	39.66V
Peak Power Current(Imp)	12.90A	10.43A	12.97A	10.47A	13.04A	10.51A	13.11A	10.55A	13.18A	10.59A
Module Efficiency(%)	20.7%		20.9%		21.1%		21.3%		21.5%	

Standard Test Conditions (STC); Irradiance 1000W/m², Battery temperature 25 °C, spectral AM1.5G
Nominal battery operating temperature (NOCT): irradiance 800W/m², Environmental temperature 20 °C, spectral AM1.5G, wind speed 1m/s

Packing Parameters

Flat Car Model(Length)	13m	17.5m
Number of Modules per Pallet	31	31
Number of Pallet per Car	22	30
Number of Modules per Car	682	930



Operation Parameters

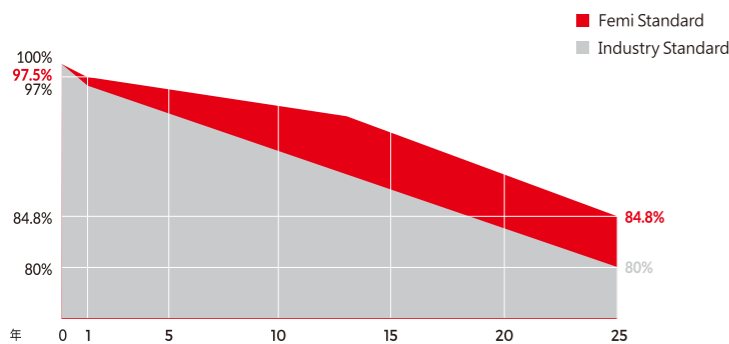
Ambient Temperature	-40°Cto~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Feature

Nominal operating temperature(Noct)	45±2°C
Peak Power Temperature Coefficient	-0.36%/°C
Open Circuit Temperature Coefficient	-0.28%/°C
Short Circuit Current Temperature Coefficient	+0.05%/°C

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Linear Warranty



Comprehensive Certificates

- ISO9001:2015
- SO14001:2015
- ISO45001:2018
- IEC61215&IEC61730
- TUV
- CE
- UL

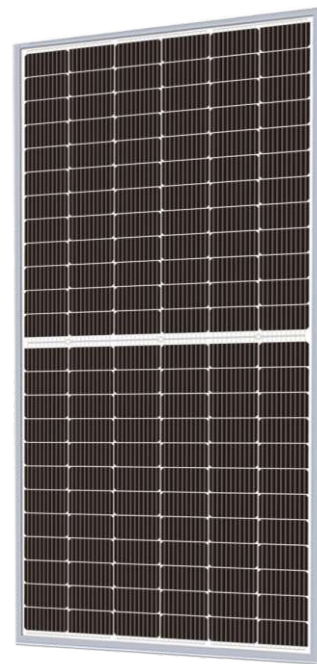


560-585W Single Crystalline Silicon Solar Modules

M10/182mm Cell.144 Half Cell Modules

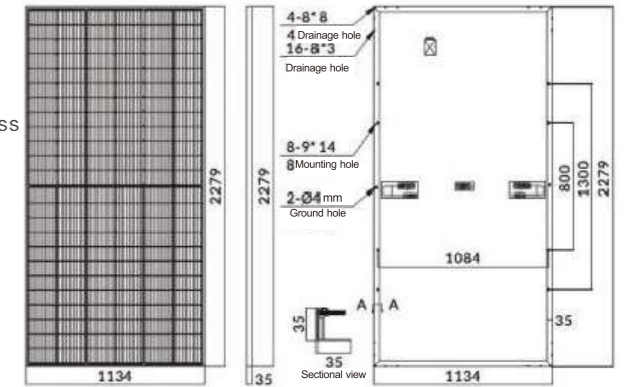
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High Quality



Structural Features

Type	Mono Silicon
No. of Cells	144(6x24)
Dimension	2279x1134x35mm
Weight	28/32.4Kg
Front	Thickness 3.2/2.0 mm Coated Tempered Glass
Aluminum Frame	Anodized Aluminum Alloy
Junction box	Ip68 (3 Bypass Diodes)
	4.0 Square Millimetre
Connects Cable	300 mm (+)/400 mm (-)
	Length can be customized
Plug-in Connector	Mc4 Compatible plug Connector
Maximum Mechanical Load	5400 Pa



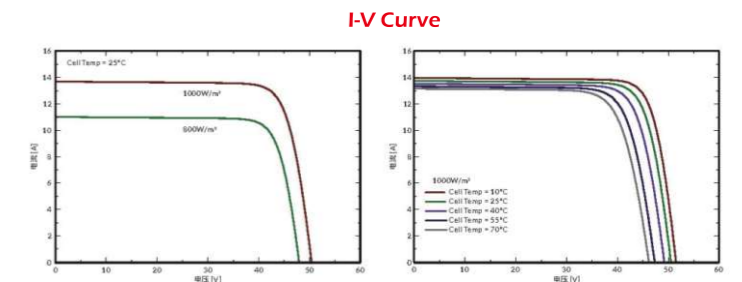
Electrical Performance Parameters

Power Range	FEMI-565M		FEMI-570M		FEMI-575M		FEMI-580M		FEMI-585M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power(Pmax)	565W	425W	570W	429W	575W	432W	580W	436W	585W	440W
Open Circuit Voltage(Voc)	50.63V	48.18V	50.77V	48.35V	50.91V	48.52V	51.05V	48.69V	51.19V	48.86V
Short-circuit Current(Isc)	14.22A	11.46A	14.30A	11.52A	14.38A	11.57A	14.46A	11.62A	14.54A	11.68A
Peak Power Voltage(Vmpp)	41.98V	39.46V	42.13V	38.59V	42.28V	38.71V	42.43V	38.84V	42.58V	39.97V
Peak Power Current(Imp)	13.46A	10.77A	13.53A	10.84A	13.60A	10.88A	13.67A	10.95A	13.74A	11.01A
Module Efficiency(%)	21.9%		22.1%		22.2%		22.4%		22.6%	

Standard Test Conditions (STC); Irradiance 1000W/m², Battery temperature 25 °C, spectral AM1.5G
Nominal battery operating temperature (NOCT): irradiance 800W/m², Environmental temperature 20 °C, spectral AM1.5G, wind speed 1m/s

Packing Parameters

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Number of Modules per Pallet	31	31
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Power Tolerance	0/+5W

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Ga-doped

Half Cell Technology

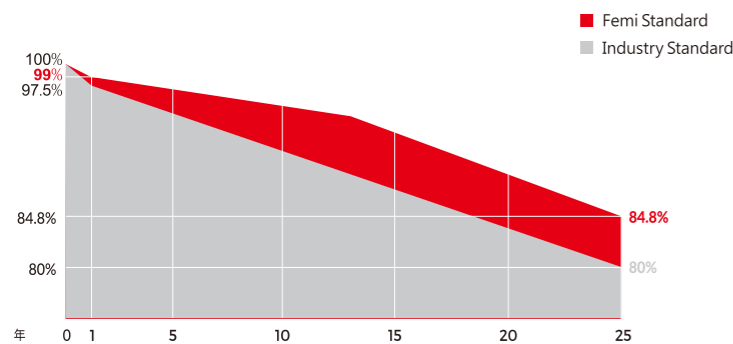
Multi-grid Line Technology

Anti PID Low LID Performance

Less impact of Hot Spot Occlusion

Lower BOS & LCOE Cost

Linear Warranty



Comprehensive Certificates

- ISO9001:2015
- SO14001:2015
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