

# FGET SERIES 5 485-505W Mono

M10/182mm Cell . 132 Half-Cell Layout

FGET® Series 5 solar modules stand out with the breakthrough innovation of M10 size (182mm) solar cells for the highest power generation and the lowest LCOE, which makes Series 5 the optimal choice for large solar power plants.

The gallium-doped wafer technology empowers significantly the performance against LID and the latest integrated segmented ribbon technology increases the power output and enhances the module reliability for long-term use.



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID  
Low LID  
Performance

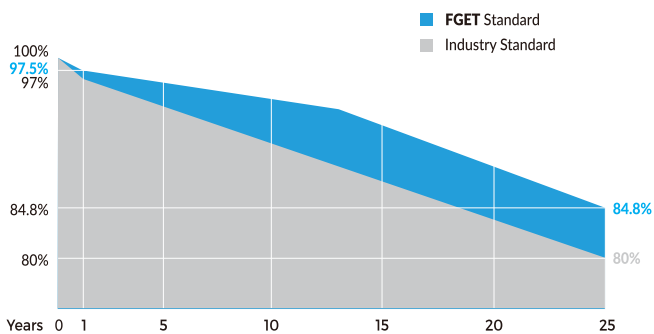


Less Hot Spot  
Shading Effects



Lower BOS & LCOE

## Linear performance Warranty



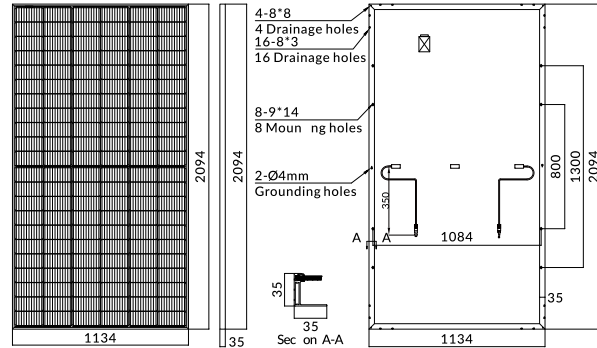
## Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	132 (6x22)
Dimensions	2094 x 1134 x 35mm
Weight	25.5kgs
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm <sup>2</sup>
Output Cables	300mm (+) / 400mm (-)
	Length can be customized
Connectors	Mc4 compable
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

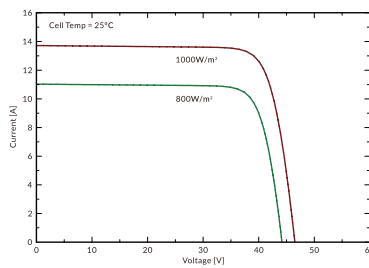
POWER CLASS	FGM10-485M		FGM10-490M		FGM10-495M		FGM10-500M		FGM10-505M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (Pmax)	485W	365W	490W	369W	495W	373W	500W	377W	505W	381W
Open Circuit Voltage (Voc)	46.18V	43.53V	46.34V	43.78V	46.51V	44.03V	46.67V	44.28V	46.83V	44.52V
Short Circuit Current (Isc)	13.60A	10.89A	13.67A	10.93A	13.74A	10.97A	13.81A	11.01A	13.88A	11.05A
Voltage at Maximum power (Vmpp)	38.16V	35.54V	38.34V	35.79V	38.52V	36.04V	38.70V	36.28V	38.88V	36.53V
Current Maximum Power (Impp)	12.71A	10.27A	12.78A	10.31A	12.85A	10.35A	12.92A	10.39A	12.99A	10.43A
MODULE EFFICIENCY (%)	20.42%		20.64%		20.85%		21.06%		21.27%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G      NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s, AM1.5G

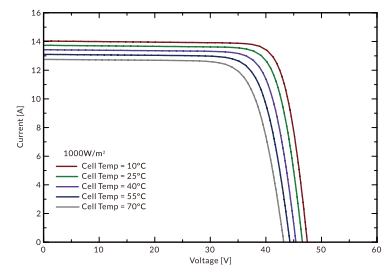
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	5	22
Pieces per container	155	682

I-V CURVE



FGM10-500M/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun Series Fuse Rating	25A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (Noct)	45±2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°C