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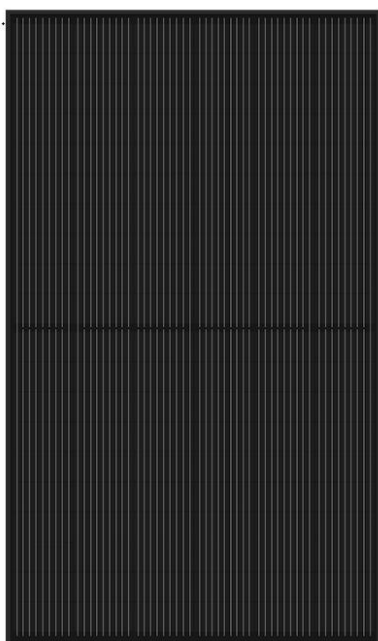
**Solar Panel Guide**

**Specification Data Sheet**

Learn more at [energypal.com/best-solar-panels-for-homes](https://energypal.com/best-solar-panels-for-homes)

# M158 Black

## 9BB HALF CUT MONO MODULE 320-330Watt



### KEY FEATURES



#### Module efficiency up to 19.56%

Higher power brings lower kilowatt-hour cost, higher lifetime generating capacity, simultaneously lower annual power attenuation;



#### PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



#### Low-Light Performance

Excellent power generation performance under Low-Light condition due to 9 busbar;



#### Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



#### Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test;



IEC 61215

IEC 61730



### System Certification

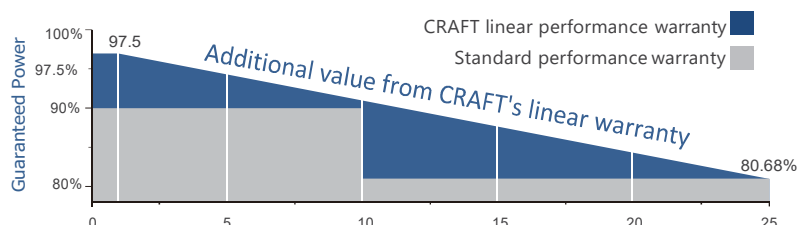
ISO 9001:2008

ISO 14001:2004

OHSAS 18001:2007

### Linear Performance Warranty

15 Year Product Warranty - 25 Year Linear Power Warranty

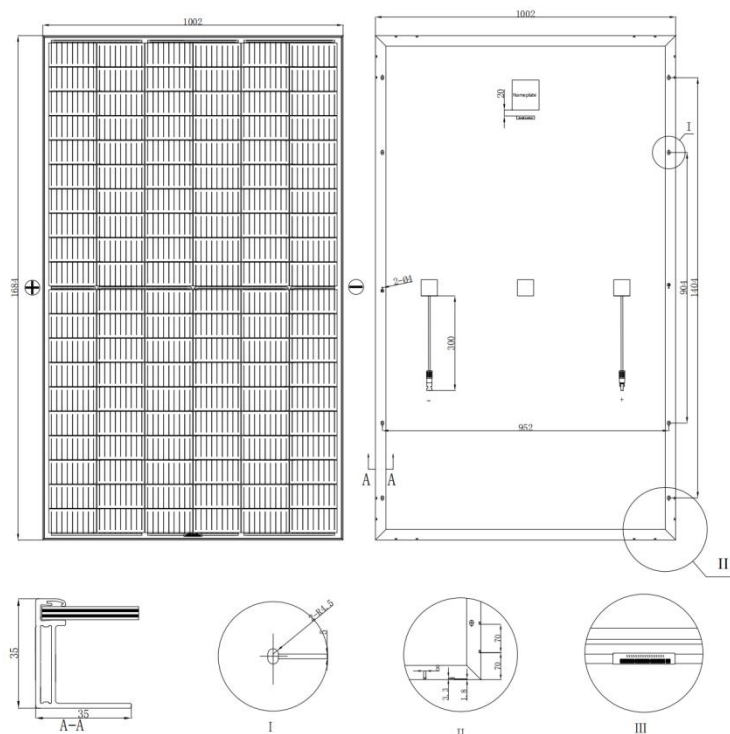


### CRAFT SOLAR Introduction

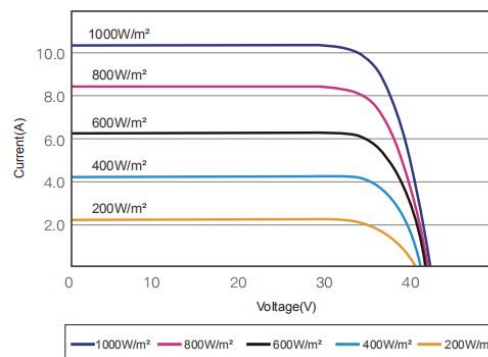
Focusing on global sustainable development, CRAFT SOLAR take the mission of promoting photovoltaic parity on the Internet and popularizing green energy as our mission, providing total solutions from photovoltaic products to photovoltaic applications, constantly innovating, leading the progress of the photovoltaic industry, and using solar energy to benefit all mankind.

As of 2020, the company's cumulative shipments of components exceeded 100MW, we are deploying downstream ecological chains globally to provide customers with one-stop system integration solutions for development, financing, design, construction, operation and maintenance. Currently, we are moving towards photovoltaic smart energy and energy internet solution providers.

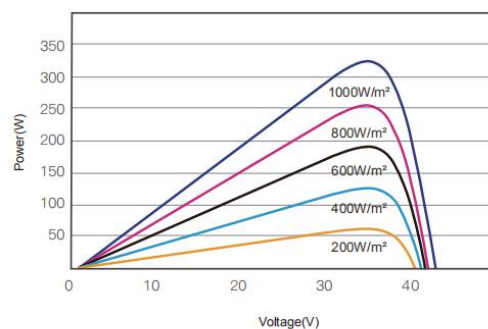
## Engineering Drawings



## I-V CURVE



I-V CURVES OF PV MODULE(325W)



P-V CURVES OF PV MODULE(325W)

## Electrical Specifications (STC)

Model	CR320-60H158	CR325-60H158	CR330-60H158
Maximum Power (Pmax)	320	325	330
Power Tolerance (W)	0~+5	0~+5	0~+5
Open Circuit Voltage (Voc)	41.95	41.27	41.43
MPP Voltage (Vmp)	33.53	33.74	33.91
Short Circuit Current (Isc)	10.08	10.17	10.28
MPP Current (Imp)	9.55	9.64	9.74
Module Efficiency (%)	18.97	19.27	19.56

## Mechanical Specifications

Model	Data
Cell Type	9BB Mono 158.75×79.375mm
No. of Cells	120(6×20)
Dimensions	1684×1002×35mm
Weight	19.1kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67/IP68, 3 diodes
Output Cables	4mm², Length 1000mm
Connector type	MC4 compatible

## Temperature Specifications

Item	Data
NOCT	45°C ±2°C
Temperature Coefficient (Pmax)	-0.365%/K
Temperature Coefficient (Voc)	-0.285%/K
Temperature Coefficient (Isc)	0.055%/K
Operating Condition	Data
Maximum System Voltage	1000V/1500 VDC(TÜV)
Operating Temperature	-40°C~+85°C
Maximum series fuse rating	15A

## Packaging Specifications

Packing unit	30/36pcs.(35mm)
Modules per 40'HQ container	858pcs.(35mm)

## Remark

Tolerance	±3%(Vmp,Imp,Voc,Isc)
STC	Irradiance 1000W/m², Cell Temperature 25°C, AM1.5