

# MONOCRYSTALLINE

## GMH430W-455W

### Half Cut Cell Solar Module



#### Quality Guarantee

12-Year Warranty for Materials and Processing  
25-Year Warranty for Extra Linear Power Output



#### Multiple Main Grid Design

Better light utilization and current collection capability, effectively improve product power output and reliability.

#### Adaptability To Harsh Environments

Third party certification through high salt spray and high ammonia corrosion test.

#### Comprehensive Certificates

IEC61215, IEC61701, IEC61730  
ISO9001:2015 Quality management systems  
ISO45001: Environmental management systems  
ISO45001:2018 Occupational health and safety management systems

#### Anti PID Guarantee

The attenuation rate caused by PID phenomenon is minimized by battery production technology optimization and material control.

#### Capacity Of Load

The whole assembly passes 2400Pa wind load and 5400Pa snow load.



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## Specifications

Solar Cell (Type/Sizes)	Mono(182mm)
Solar Cells Number	120Pcs(6*10)
Dimensions	1909*1134*30mm
Weight	23.9KG/Pcs
Structure	3.2 Glass+EVA Film+Back
Frame	Anodized aluminum alloy
Junction Box	IP68/3*Bypass Diode
Cable Cross Section Size	4.0mm <sup>2</sup> /300mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	36Pcs/Pallet
Packing Volume	2.78Cbm/Pallet
40'HQ Container	864 Pcs

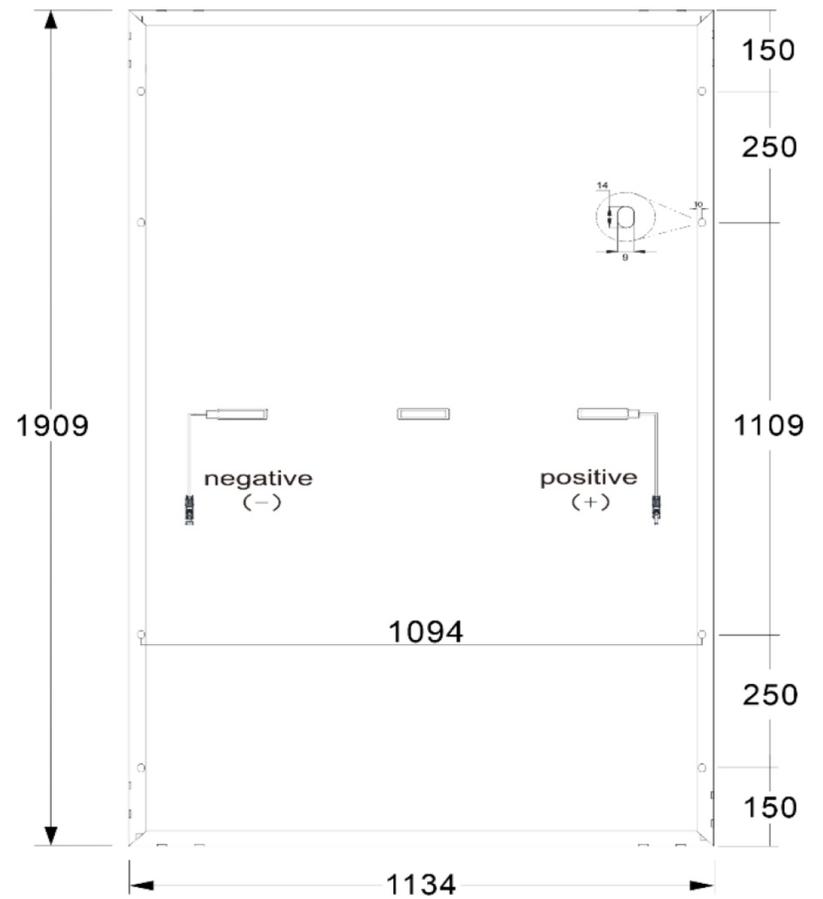
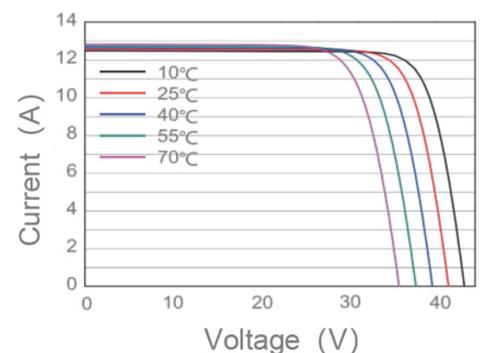
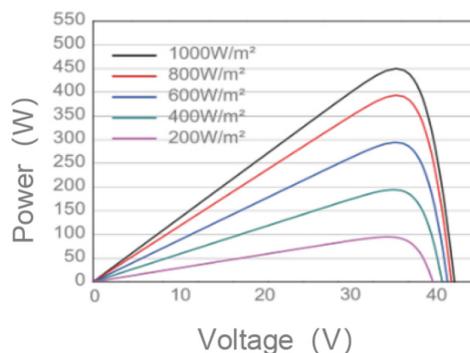
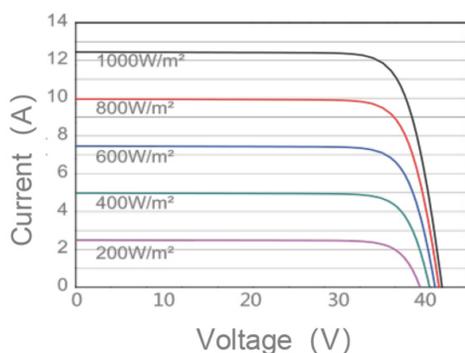
## Electrical Parameters at STC

Module Type	430W	435W	440W	445W	450W	455W
Rate Maximum Power (Pmax)	430W	435W	440W	445W	450W	455W
Module Efficiency	19.90%	20.10%	20.30%	20.60%	20.80%	21.10%
Open Circuit Volatge (Voc)	40.65V	40.8V	40.95V	41.10V	41.25V	41.40V
Short Circuit Current (Isc)	13.59A	13.67A	13.74A	13.82A	13.89A	13.97A
Voltage at Pmax (Vmp)	33.89V	34.09V	34.28V	34.48V	34.67V	34.87V
Current at Pmax (Imp)	12.69A	12.77A	12.84A	12.91A	12.98A	13.05A
Power Tolerance	0~ +5W					
Temperature Coefficient of Isc	+0.046%/°C					
Temperature Coefficient of Voc	-0.276%/°C					
Temperature Coefficient of Pmax	-0.350%/°C					
STC	Irradiance 1000W/m <sup>2</sup> Cell Temperature 25°C AM1.5					

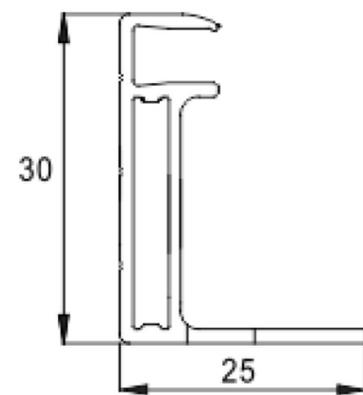
## Operating Conditions

Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

## Characteristics



Mechanical Diagrams



Units: mm/±2