



**Soltech Energy**

# ST - 60M

**315W**

MONO CRYSTALLINE MODULE

IEC61215 / IEC61730 / IEC61701 /  
IEC62716 / IEC62804

EXQUISITE  
WORKMANSHIP  
AND EXCELLENT QUALITY.



### IP68 Junction Box, Connector

IP68 Junction Box and Connector have a high degree of waterproof, effectively resist the harsh environment



### 15A current

The junction box carries a current of 15A, ensuring high current flow through the modules



### Super strong frame

Glue-spilled tank has a double-layer waterproof, cross-section with hook-shaped aluminum frame, enhanced by 10% of the mechanical load strength



### Current division

The module refines the current division, thus effectively reducing the loss of up to 2% due to mismatch and increasing the power output of the system



### Salt spray, Ammonia and PID test

Excellent salt spray resistance, anti-ammonia and anti PID, TUV, SUD certification approved



### Strong Mechanical load capacity

Passed the 2400pa wind load and 5400pa snow load test, ensuring that the module has a stable mechanical life

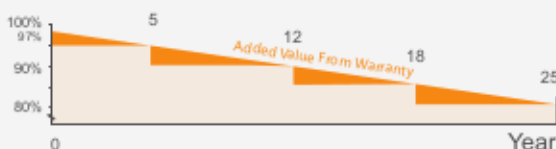


### Color Classification

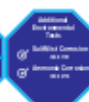
Modules are packaged according to color classification, to achieve consistent appearance after installation

### LINEAR PERFORMANCE WARRANTY

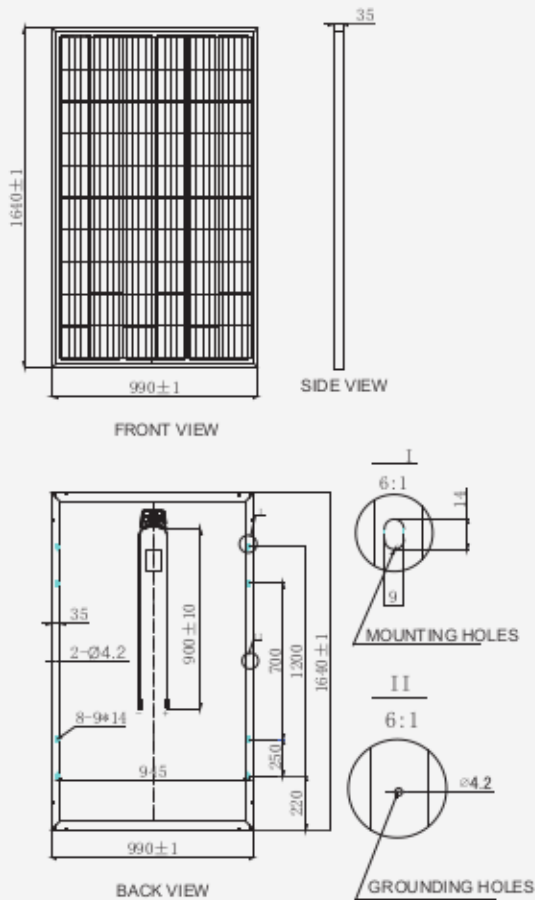
- 10 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output



### QUALIFICATIONS AND CERTIFICATES



## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 156.75x156.75mm
Number Of Cells	60 ( 6x10 )
Dimensions(AxBxC)	1640x990x35mm
Weights	19kg
Front Glass	3.2mm Tempered Low Iron Glass
Frame	Clear Anodized Aluminum Alloy
Junction Box	IP68 ,with Bypass Diodes
Connector	Mc4 Compatible
Output Cables	Tuv,±length 900mm,4.0mm <sup>2</sup>

## ELECTRICAL CHARACTERISTICS

Maximum Power At STC(Pmax)	315W
Short Circuit Current(Isc)	9.41A
Open Circuit Voltage(Voc)	43V
Maximum Power Current(Imp)	9A
Maximum Power Voltage(Vmpp)	35V
Module Efficiency	17.7%
Power Tolerance	0~+3%

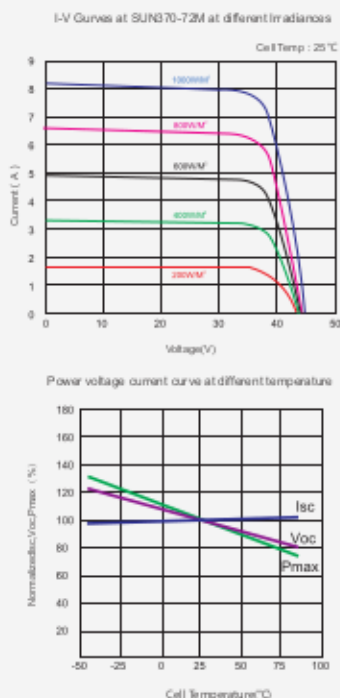
STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1

## NOCT

Maximum Power At STC(Pmax)	235.7
Short Circuit Current(Isc)	7.59
Open Circuit Voltage(Voc)	39.7
Maximum Power Current(Imp)	7.2
Maximum Power Voltage(Vmpp)	31.7

NOCT: Irradiance at 800W/m<sup>2</sup> , Ambient Temperature 20°C , wind speed 1m/s .

## I-V CURVES



## SYSTEM INTEGRATION PARAMETERS

Maximum System Voltage	VDC 1000V
Maximum Series Fuse	15A
Increased Snowload Acc.to Iec 61215	5400Pa
Operating Temperature	-40~+85°C
Number Of Bypass Diodes	3

## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature(Noct)	45°C±2°C
Temperature Coefficient Of Pmax	-0.40%/°C
Temperature Coefficient Of Voc	-0.29%/°C
Temperature Coefficient Of Isc	0.05%/°C

## PACKING CONFIGURATION

Container	20' GP	40' GP
Pieces Per Pallet	30	30
Pallets Per Container	14	28
Pieces Per Container	400	840