

**ZY-MONO-450W**

**144 half-cell**

**Bifacial Transparent Backsheet**



### Electrical Rating

Maximum Power(Pmax)	450W
Maximum Power Voltage (Vmp)	42.32V
Maximum Power Current(Imp)	10.63A
Open Circuit Voltage (Voc)	50.88V $\pm$ 3%
Short Circuit Current(Isc)	11.32A $\pm$ 3%
Maximum Rectified Current	10A
Maximum Series Fuse	15A
Maximum Temperature	85 $^{\circ}$ C
Maximum System Voltage	1000VDC

### ELECTRICAL PARAMETERS

#### Performance at STC (Power Tolerance 0 ~ +3%)

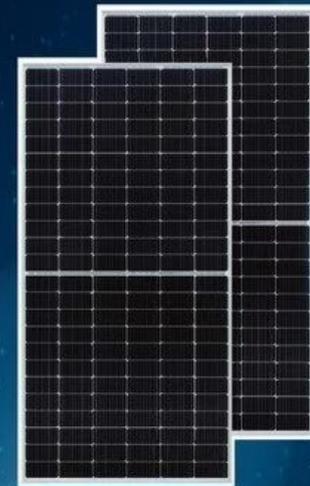
Maximum Power (Pmax/W)	450
Operating Voltage (Vmpp/V)	40.9
Operating Current (Impp/A)	11.01
Open-Circuit Voltage (Voc/V)	49.3
Short-Circuit Current (Isc/A)	11.54
Module Efficiency ηm(%)	20.7

#### Performance at NMOT

Maximum Power (Pmax/W)	335
Operating Voltage (Vmpp/V)	38.2
Operating Current (Impp/A)	8.78
Open-Circuit Voltage (Voc/V)	46.2
Short-Circuit Current (Isc/A)	9.32

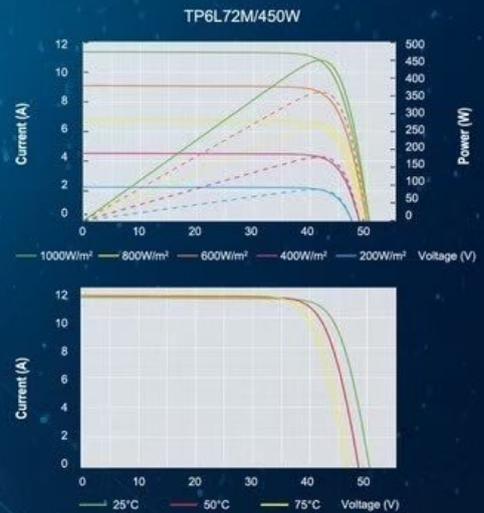
STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s



## MONO-450W

### I-V CURVE



### MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	166*166mm
Cell Arrangement	144 (6*24)
Weight	23kg
Module Dimensions	2108*1048*35mm
Cable Length (Portrait)	300mm
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Glass	3.2mm AR Coating Semi-tempered Glass
No. of Bypass Diodes	3
Packing Configuration	30pcs/carton
Frame	Anodized Aluminium Alloy
Junction Box	IP68

### OPERATING CONDITIONS

Maximun System Voltage	1000V/1500V/DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

### TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

### TECHNICAL DRAWINGS

