



## ZXM6 | 60 Cells

12-busbar Mono PV module 275-285 Watt



### Features :

#### Good Low-light performance

Excellent performance under low-light environments.

#### High efficiency

Dense busbars shorten the current conduction distances between bars and lower serial resistance; increases 7-8W power output.

#### Minimize Crack Effect

Collected more current, almost no power generation efficiency loss by internal cells cracked.

#### Improve reliability

Improve product reliability; minimize the probability of pressure and battery fragmentation caused by thermal stress.

#### Longer lifetime

Minimize the heat resistance due to internal cracks, bringing longer life span and less attenuation.



High module efficiency up to 17.41%



25-year-linear warranty on outputs



Good weather resistance, Better anti-EL ability



Higher capacity in all life cycle, Lower power attenuation, Longer lifespan, less maintenance costs



Lower carbon emissions, more environmental-friendly way of recycling



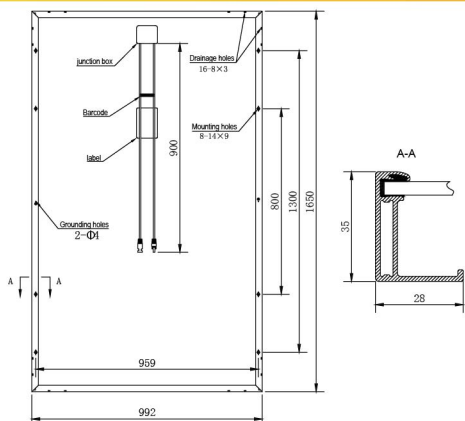
ISO 9001  
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OHSAS 18001



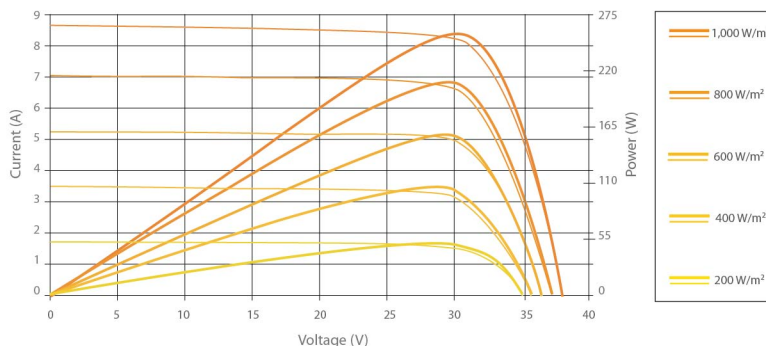
# ZXM6-T60 275-285



## Dimension of the PV module



## I-V Curves of the PV module



## Electrical data

Model	ZXM6 T60-275	ZXM6 T60-280	ZXM6 T60-285
Nominal Power Watt $P_{max}(W_p)$	275	280	285
Power Output Tolerance $P_{max}(\%)$	0~+3	0~+3	0~+3
Maximum Power Voltage $V_{mp}(V)$	31.57	31.79	32.02
Maximum Power Current $I_{mp}(A)$	8.71	8.81	8.90
Open Circuit Voltage $V_{oc}(V)$	38.14	38.35	38.56
Short Circuit Current $I_{sc}(A)$	9.24	9.35	9.45
Module Efficiency $\eta_m(\%)$	16.80	17.11	17.41

## Mechanical data

Solar cells	Mono 156×156 / 156.75×156.75 mm
Cells orientation	60 ( 6×10 )
Module dimension	1650×992×35 mm
Weight	19.5 kg
Glass	High transparency, low iron, tempered glass 3.2 mm (AR-coating)
Junction box	IP 67 , 3 diodes
Cables	4 mm <sup>2</sup> , 900 mm
Connectors	MC4-compatible

## Temperature ratings

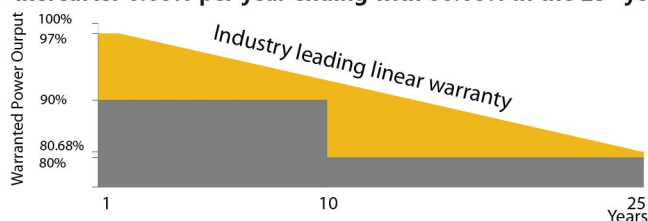
Nominal Operating Cell Temperature	45°C ±2°C
Temperature coefficient of $P_{max}$	-0.42%/K
Temperature coefficient of $V_{oc}$	-0.29%/K
Temperature coefficient of $I_{sc}$	0.04%/K

## Working conditions

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C ~ +85°C
Maximum series fuse	15 A
Maximum load ( snow/wind )	5400 Pa / 2400 Pa

## Warranty information

10 years workmanship warranty  
25 years output warranty(monocrystalline):3.0% in the 1<sup>st</sup> year,  
thereafter 0.68% per year ending with 80.68% in the 25<sup>th</sup> year



## Packaging information

Modules per box	30 pcs.(35 mm)
Modules per 40' HQ container	896 pcs.(35 mm)

Measurement Tolerance STC:  $\pm 3\%$  (  $P_{max}$  ),  $\pm 10\%$  (  $V_{mp}$ ,  $I_{mp}$ ,  $V_{oc}$ ,  $I_{sc}$  ), Values at Standard Test Conditions STC(Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C) | Remark: please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2017 | Version: ZXM6-T60-1703.E