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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Zhejiang Aurora PV Solar Co., Ltd.**

**AU-72M 270-310**

**AU-72M-300**

Also available on the web at  
[EnergyPal.com/zhejiang-aurora-pv-solar-co-ltd-solar-panels/au-72m-300](http://EnergyPal.com/zhejiang-aurora-pv-solar-co-ltd-solar-panels/au-72m-300)

# Aurora PV

## Key Features

72 Mono-Crystalline solar cells

Unique frame design to reinforce sealing and to prevent freezing and warping

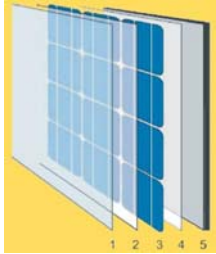
Strong aluminum frames to strengthen the load hold and to stand against high wind

Special mounting holes on the frames for long and short side mounting

High transparency low iron tempered glass with enhanced stiffness and impact resistance

Advanced EVA encapsulation system with multilayer backsheets to better product modules

25-year transferrable power output warranty: 5 years/95%, 12 years/90%, 25 years/80%



## Composition

1	Tempered Glass
2	EVA
3	Solar Cell
4	EVA
5	Triple-layer back sheet

## Electrical Characteristics

Model	Voc(V)	Vpm(V)	Pmax(W)	Isc(A)	Ipm(A)	FF
AU-72M-270	44.38	34.67	270	8.25	7.81	73.95
AU-72M-275	44.5	35.01	275	8.31	7.89	74.7
AU-72M-280	44.62	35.23	280	8.39	7.95	74.81
AU-72M-285	44.77	35.39	285	8.46	8.08	75.55
AU-72M-290	44.91	35.51	290	8.51	8.14	75.63
AU-72M-295	45.09	35.69	295	8.6	8.2	75.47
AU-72M-300	45.35	36.25	300	8.62	8.24	76.41
AU-72M-305	45.64	36.89	305	8.65	8.27	77.28
AU-72M-310	45.9	37.32	310	8.65	8.3	78.02

Max-System Voltage (VDC) 600V(UL)/1000V(IEC)

Max.Series Fuse (A) 15

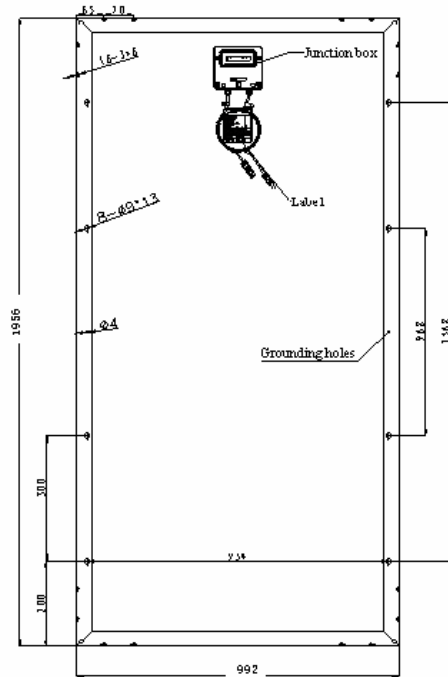
Pm Temperature Coefficients (%/°C)  $-(0.5 \pm 0.05)$

Isc Temperature Coefficients (%/°C)  $0.06 \pm 0.01$

Voc Temperature Coefficients (%/°C)  $-(0.35 \pm 0.05)$

NOCT Nominal Operating Cell Temperature  $46 \pm 2^\circ\text{C}$

All specified Parameters are at STC  $25^\circ\text{C}$  Ambient,  $1000\text{W}/\text{m}^2$  irradiance and AM 1.5



## Mechanical Characteristics

Solar Cell	Monocrystalline $156 \times 156 \text{ mm}$
No. of Cells	72 ( $6 \times 12$ )
Dimensions	$1956 \times 992 \times 50 \text{ mm}$
Weight	27kg
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65
Max.wind load/max.snow load	2400pa/5400pa

## Absolute Ratings

Dielectric Insulation Voltage	3000V
Operating Temperature ( $^\circ\text{C}$ )	$-40 \sim +85$
Storage Temperature ( $^\circ\text{C}$ )	$-40 \sim +85$

## Brand Authentication



## Package Information

Carton	2pcs/ctn
Pallet	22pcs/plt
20"GP	6plts (220pcs)
40"GP	12plts (528pcs)

## Zhejiang Aurora PV Solar Co., Ltd

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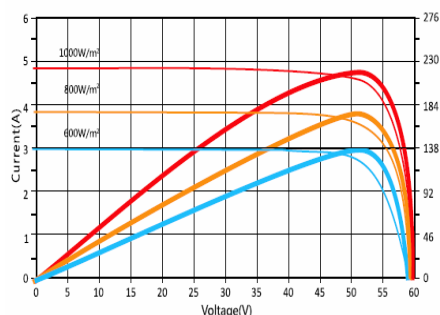
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Current-Voltage&Power-Voltage Curve(220W)



Temperature Dependence of Isc, Voc, Pmax

