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# **EnergyPal**

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

**Zhejiang Yueyang Industry & Trade Co., Ltd**

**HLSP-130M-170M**

**HLSP-160M**

Also available on the web at

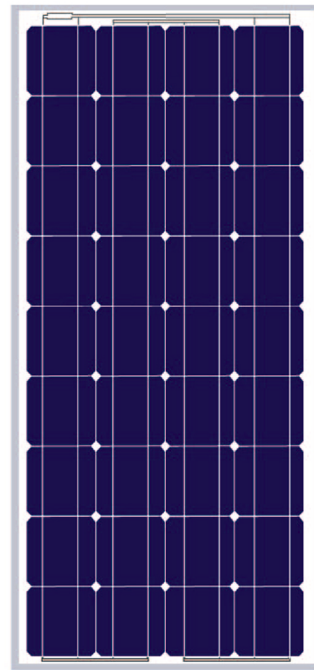
[EnergyPal.com/zhejiang-yueyang-industry-trade-co-ltd-solar-panels/hlsp-160m](http://EnergyPal.com/zhejiang-yueyang-industry-trade-co-ltd-solar-panels/hlsp-160m)

# 36 CELL

MONOCRYSTALLINE MODULE 130W-170W

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## PRODUCT OVERVIEW+APPLICATION

- on-grid residential roof-tops
- on-grid commercial/industrial roof-top solar power stations
- Other off-grid applications
- In a large project, this cell solar module can help you save cost in labor and installation.

## SOLAR MODULE ADVANTAGES

- Snow/Wind load
- Positive tolerance
- 25-year progressive warranty
- 10-year product warranty
- Slef-cleaning glass
- PID Resistant

## MECHANICAL PARAMETERS

cell(mm)	mono 156X156
Weight(kg)	12.5
Dimensions(LxWxH)	1480x680x35
Cable Length(mm)	900MM
Cable cross section size(mm <sup>2</sup> )	4
No.of cells and connections	36(4x9)
Frame	anodised aluminium alloy
Packing configuration	25/21pcs/carton

## WORKING CONDITIONS

Maximum System voltage	DC1000(TUV)
Operating Temp.	-45°C+80°C
Junction Box	IP65/IP67 Reted
Static Loading	≤5400Pa
Maximum Serise Fuse(A)	15A
NOCT	47±2°C
Application Class	Class A
Test Standard	IEC61215/61730

## GUARANTEE

5-year limited product warranty

Limited performance warranty: 10year at 90% of the minimal rated power output, 25years at 80% of the minimal rated power output

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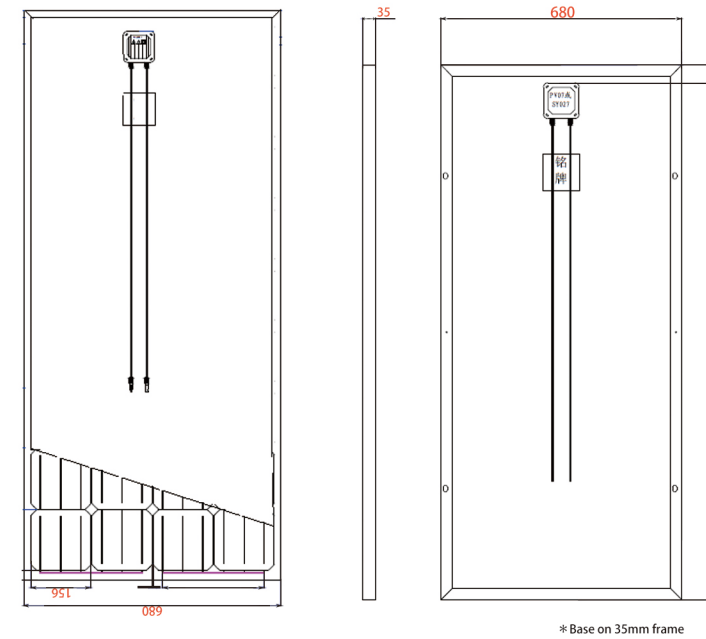
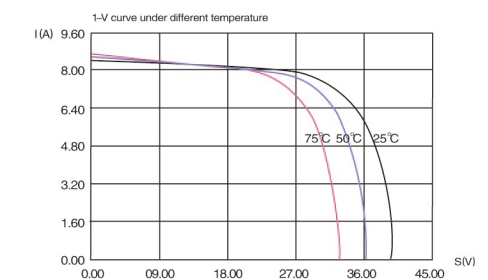
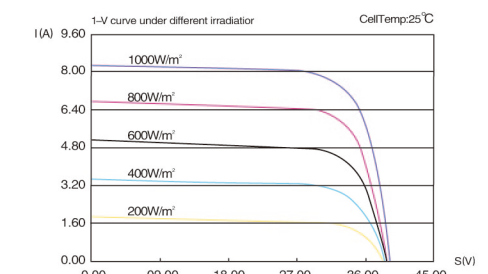
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## I-V CURVE

Output under different irradiation and the correlation between isc/voc/pmax and temperature map



## ELECTRICAL PARAMETERS

TYPE	HLSP-130M	HLSP-135M	HLSP-140M	HLSP-145M	HLSP-150M	HLSP-155M	HLSP-160M	HLSP-165M	HLSP-170M
Rated Maximum Power at STC(W)	130W	135W	140W	145W	150W	155W	160W	165W	170W
Maximim Power Voltage(Vmp/P)	17.56V	17.79V	17.89V	18.11V	18.21V	18.3V	18.35V	18.38V	18.45V
Maximum Power Current(Imp/A)	7.4A	7.83A	7.83A	8.04A	8.25A	8.47A	8.72A	8.97A	9.21A
Open Circuit Voltage(Voc/v)	21.9V	22.05V	22.11V	22.13V	22.32V	22.5V	22.49V	22.52V	22.61V
Short Circuit Current(Isc/a)	8.11A	8.33A	8.54A	8.79A	8.96A	9A	9.47A	9.74A	9.96A
Power Tolerance	0 to +3%								
Current temperature coefficient(ISC)	0.04%/°C								
Voltage temperature coefficient(Voc)	-0.30%/°C								
Power temperature coefficient(Pmp)	-0.39%/°C								

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