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# **EnergyPal**

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

**Qingdao Yinghua Solar Co., Ltd.**

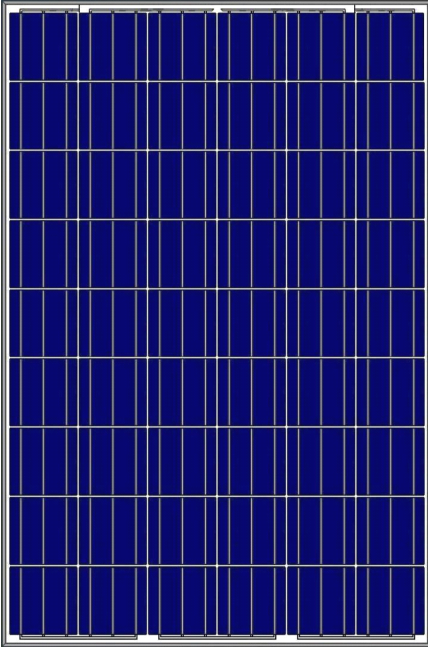
**AS-6P27 210-245**

**AS-6P27-230W**

Also available on the web at  
[EnergyPal.com/qingdao-yinghua-solar-co-ltd-solar-panels/as-6p27-230w](http://EnergyPal.com/qingdao-yinghua-solar-co-ltd-solar-panels/as-6p27-230w)

## AS-6P27

### POLYCRYSTALLINE MODULE



#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

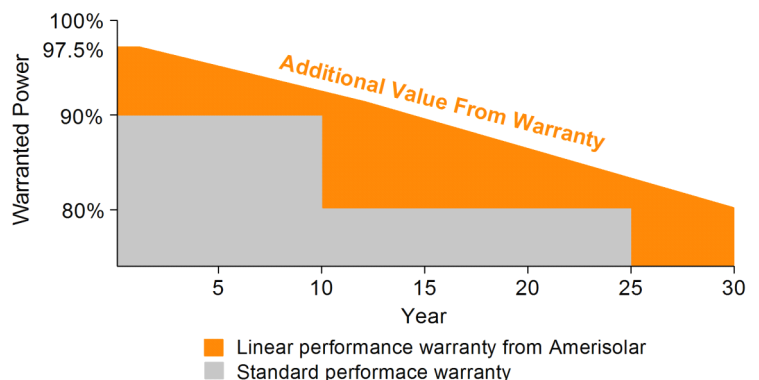
- High module conversion efficiency up to 16.69% through advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.
- Potential induced degradation (PID) resistance.

#### CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

#### SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



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## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	210W	215W	220W	225W	230W	235W	240W	245W
Open Circuit Voltage ( $V_{oc}$ )	33.6V	33.7V	33.8V	33.9V	34.0V	34.1V	34.2V	34.3V
Short Circuit Current ( $I_{sc}$ )	8.48A	8.59A	8.70A	8.81A	8.90A	8.98A	9.08A	9.18A
Voltage at Nominal Power ( $V_{mp}$ )	27.1V	27.2V	27.3V	27.4V	27.5V	27.6V	27.7V	27.8V
Current at Nominal Power ( $I_{mp}$ )	7.75A	7.91A	8.06A	8.22A	8.37A	8.52A	8.67A	8.82A
Module Efficiency (%)	14.30	14.64	14.98	15.33	15.67	16.01	16.35	16.69
Operating Temperature	-40°C to +85°C							
Maximum System Voltage	1000V DC							
Fire Resistance Rating	Type 1(UL1703)/Class C(IEC61730)							
Maximum Series Fuse Rating	15A							

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

## ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power ( $P_{max}$ )	155W	158W	162W	166W	169W	173W	177W	180W
Open Circuit Voltage ( $V_{oc}$ )	30.9V	31.0V	31.1V	31.2V	31.3V	31.4V	31.5V	31.6V
Short Circuit Current ( $I_{sc}$ )	6.87A	6.96A	7.05A	7.14A	7.21A	7.27A	7.35A	7.44A
Voltage at Nominal Power ( $V_{mp}$ )	24.7V	24.8V	24.9V	25.0V	25.1V	25.2V	25.3V	25.4V
Current at Nominal Power ( $I_{mp}$ )	6.28A	6.37A	6.51A	6.64A	6.74A	6.87A	7.00A	7.09A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 156x156mm (6x6inches)
Number of cells	54 (6x9)
Module dimensions	1480x992x35mm (58.27x39.06x1.57inches)
Weight	17kg (37.5lbs)
Front cover	3.2mm (0.13inches) low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 900mm (35.43inches)
Connector	MC4 or MC4 compatible

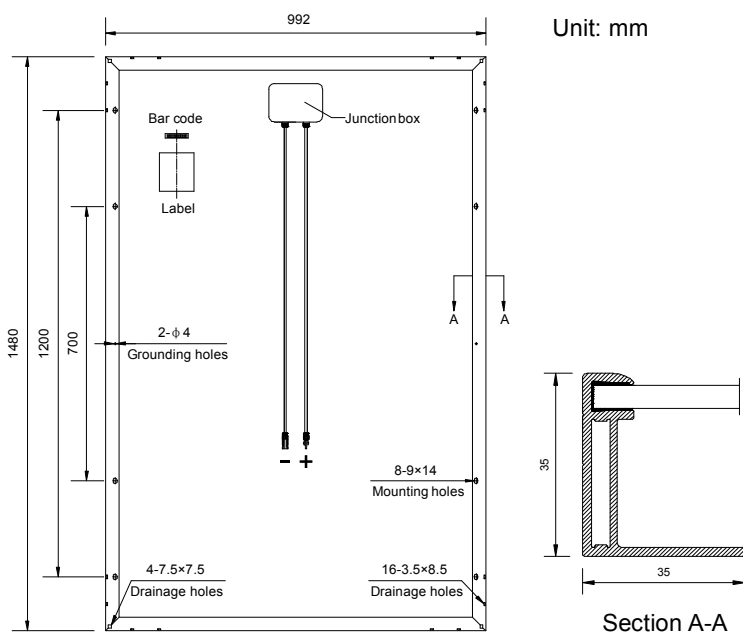
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C ±2°C
Temperature Coefficients of $P_{max}$	-0.43%/°C
Temperature Coefficients of $V_{oc}$	-0.33%/°C
Temperature Coefficients of $I_{sc}$	0.056%/°C

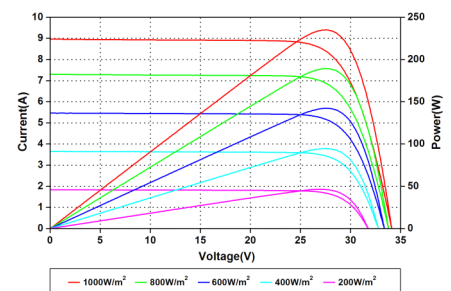
## PACKAGING

Standard packaging	26pcs/pallet
Module quantity per 20' container	364 pcs
Module quantity per 40' container	780 pcs

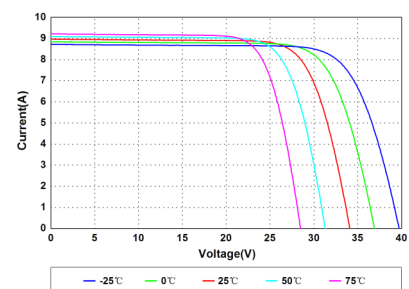
## ENGINEERING DRAWINGS



## IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Specifications in this datasheet are subject to change without prior notice.