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# **EnergyPal**

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

**Ideal New Energy Co., Ltd.**

**INE250-285P-60**

**INE-275P**

Also available on the web at  
[EnergyPal.com/ideal-new-energy-co-ltd-solar-panels/ine-275p](http://EnergyPal.com/ideal-new-energy-co-ltd-solar-panels/ine-275p)

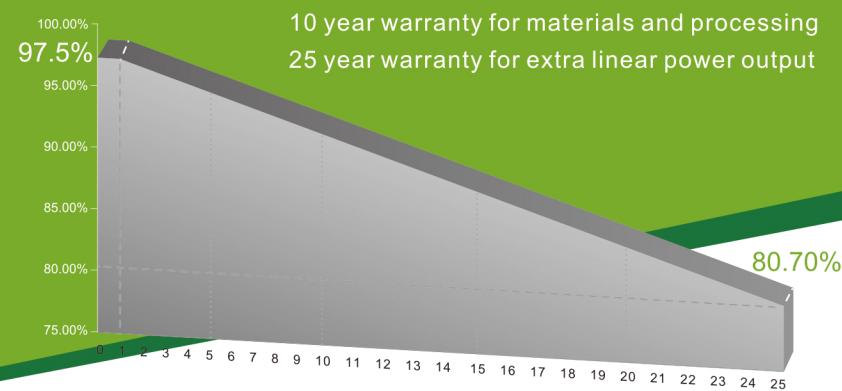


# IDEAL MODULE

## 250W-285W

6PB SERIES-60 CELLS  
POLYCRYSTALLINE SOLAR MODULE

- ◇ Positive (0~+5w) power output.
- ◇ 100% double EL testing inspection, effectively exclude products defects.



### KEY FEATURES

- +5W OUTPUT POSITIVE TOLERANCE**  
Guaranteed 0~+5W positive tolerance ensures power output reliability.
- INNOVATIONAL 5-BUSBAR CELLS**  
Reduces the cell series resistance and internal stress, decreases the risk of micro-crack and improves the module output.
- Anti PID PID RESISTANCE**  
Excellent PID resistance at 96 hours (@85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment.
- EXCELLENT MECHANICAL LOAD CAPABILITY**  
Certified to withstand: snow load (6000 Pa) and wind load (3600 Pa).
- HIGHER RELIABILITY AND DURABILITY**  
Effectively deals with harsh environments, such as sand, salt mist and ammonia resistance.
- PASSED HAIL TEST**  
Certified to hail resistance: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).
- LOW-LIGHT IRRADIANCE**  
With the deep textured ARC glass and cell surface texturing process, achieve the excellent performance at the haze, cloudy days and other low light conditions.

### COMPREHENSIVE CERTIFICATES



www.idealnewenergy.com

### INE250~285p-60cell

Standard 60Cells Polycrystalline PV Module

### Electrical Characteristics (STC)

| Module Type                  | INE-250P | INE-255P | INE-260P | INE-265P |
|------------------------------|----------|----------|----------|----------|
| Maximum Power-Pmax(W)        | 250      | 255      | 260      | 265      |
| Open Circuit Voltage-Voc(V)  | 37.2     | 37.4     | 37.7     | 37.9     |
| Short-Circuit Current-Isc(A) | 8.82     | 8.94     | 9.09     | 9.17     |
| Voltage at Pmax-Vmp(V)       | 30.6     | 30.8     | 30.9     | 31.2     |
| Current at Pmax-Imp(A)       | 8.17     | 8.28     | 8.41     | 8.49     |
| Module Efficiency-ηm(%)      | 15.37    | 15.67    | 15.98    | 16.29    |

| Module Type                  | INE-270P | INE-275P | INE-280P | INE-285P |
|------------------------------|----------|----------|----------|----------|
| Maximum Power-Pmax(W)        | 270      | 275      | 280      | 285      |
| Open Circuit Voltage-Voc(V)  | 38.1     | 38.3     | 38.5     | 38.7     |
| Short-Circuit Current-Isc(A) | 9.32     | 9.46     | 9.54     | 9.68     |
| Voltage at Pmax-Vmp(V)       | 31.3     | 31.4     | 31.7     | 31.9     |
| Current at Pmax-Imp(A)       | 8.63     | 8.76     | 8.83     | 8.96     |
| Module Efficiency-ηm(%)      | 16.60    | 16.90    | 17.21    | 17.5     |

STC: Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass 1.5

|                                |           |
|--------------------------------|-----------|
| Power Tolerance(W)             | (0,+4.99) |
| Maximum System Voltage(V)      | 1000      |
| Maximum Series Fuse Rating (A) | 20        |

### Temperature Characteristics

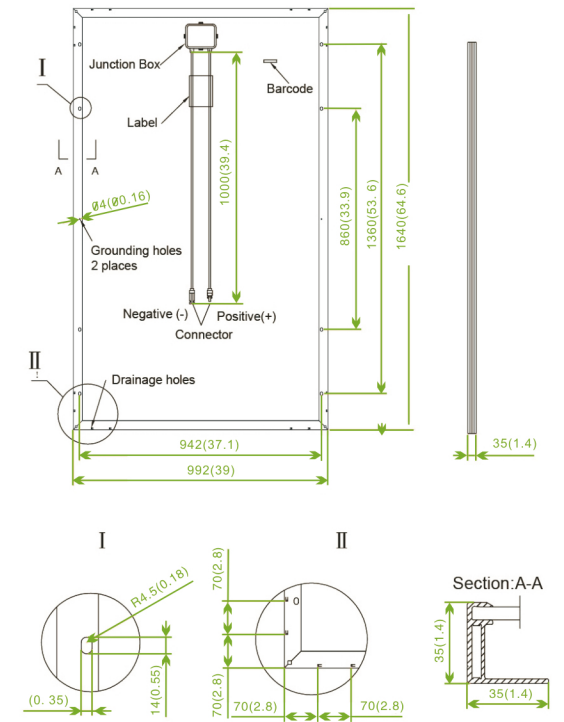
|  |              |
|--|--------------|
| Pmax Temperature Coefficient             | -0.40%/°C    |
| Voc Temperature Coefficient              | -0.32%/°C    |
| Isc Temperature Coefficient              | +0.05%/°C    |
| Operating Temperature                    | -40 ~ +85 °C |
| Nominal Operating Cell Temperature(NOCT) | 45±2 °C      |

### Mechanical Specifications

| External Dimensions | 1640×992×40mm                      | 1640×992×35mm                      |
|---------------------|------------------------------------|------------------------------------|
| Weight              | 20 kg                              | 19.5 kg                            |
| Solar Cells         | Poly crystalline 156×156mm (60pcs) | Poly crystalline 156×156mm (60pcs) |
| Front Glass         | 3.2 mm tempered glass, low iron    | 3.2 mm tempered glass, low iron    |
| Frame               | Anodized aluminum alloy            | Anodized aluminum alloy            |
| Junction Box        | IP67                               | IP67                               |
| Output Cables       | 4.0 mm², cable length:1000 mm      | 4.0 mm², cable length:1000 mm      |
| Connector           | MC4 Compatible                     | MC4 Compatible                     |
| Mechanical Load     | 5400 Pa                            | 5400 Pa                            |

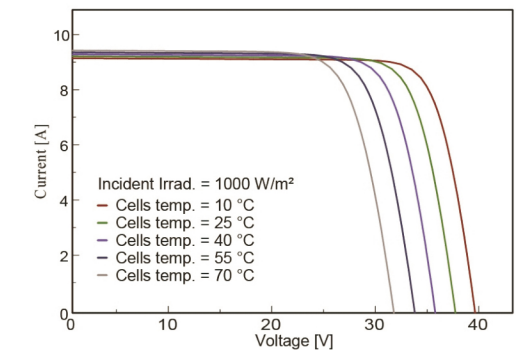
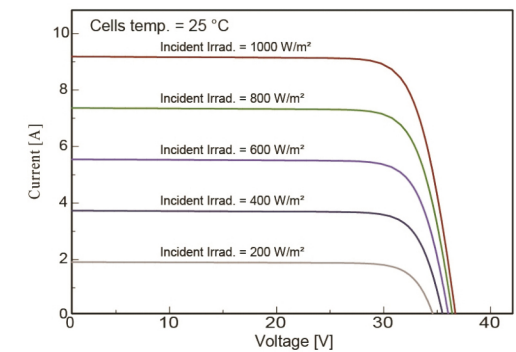
### Packing Configuration

|                       | 1640×992×40mm |       | 1640×992×35mm |       |
|-----------------------|---------------|-------|---------------|-------|
| Container             | 20'GP         | 40'GP | 20'GP         | 40'GP |
| Pieces per Pallet     | 26            | 26    | 30            | 30    |
| Pallets per Container | 12            | 28    | 12            | 28    |
| Pieces per Container  | 312           | 728   | 360           | 840   |



All Dimensions in mm(inch)  
The above drawing is a graphical representation of the product.  
For engineering quality drawings please contact IDEAL SOLAR.

### I-V Curve(INE265P)



Specifications are subject to change without further notification INE-EN-2017V1.0 © Copyright 2017 IDEAL