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# EnergyPal

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

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

**INE320-360M-72**

**INE-330M**

Also available on the web at  
[EnergyPal.com/ideal-new-energy-co-ltd-solar-panels/ine-330m](http://EnergyPal.com/ideal-new-energy-co-ltd-solar-panels/ine-330m)

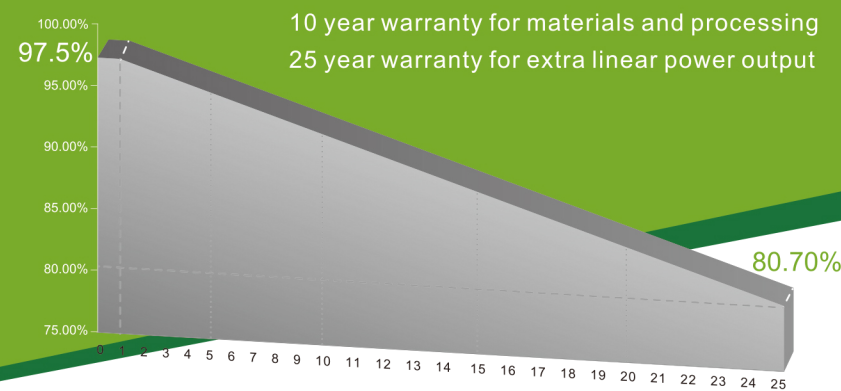


# IDEAL MODULE

## 320W-360W

6MA SERIES-72 CELLS  
MONOCRYSTALLINE SOLAR MODULE

- ◇ Positive ( 0~+5w ) power output.
- ◇ 100%double EL testing insepction, 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 mirco-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).
- LOWER TEMPERATURE COEFFICIENT**  
Improved temperature coefficient decreases power loss in the high temperature application.

### COMPREHENSIVE CERTIFICATES



www.idealnewenergy.com

### INE320~360M-72cell

Standard 72Cells Monocrystalline PV Module

#### Electrical Characteristics (STC)

Module Type	INE-320M	INE-325M	INE-330M	INE-335M	INE-340M
Maximum Power-Pmax(W)	320	325	330	335	340
Open Circuit Voltage-Voc(V)	45.7	45.8	46.0	46.2	46.4
Short-Circuit Current-Isc(A)	9.32	9.41	9.50	9.62	9.71
Voltage at Pmax-Vmp(V)	37.1	37.3	37.5	37.6	37.8
Current at Pmax-Imp(A)	8.63	8.71	8.80	8.91	8.99
Module Efficiency-ηm(%)	16.49	16.75	17.01	17.26	17.52

Module Type	INE-345M	INE-350M	INE-355M	INE-360M
Maximum Power-Pmax(W)	345	350	355	360
Open Circuit Voltage-Voc(V)	47.1	47.3	47.5	47.7
Short-Circuit Current-Isc(A)	9.69	9.80	9.89	9.98
Voltage at Pmax-Vmp(V)	38.1	38.2	38.4	38.6
Current at Pmax-Imp(A)	9.06	9.16	9.24	9.33
Module Efficiency-ηm(%)	17.78	18.04	18.30	18.55

STC: Irradiance 1000W/m<sup>2</sup>, 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

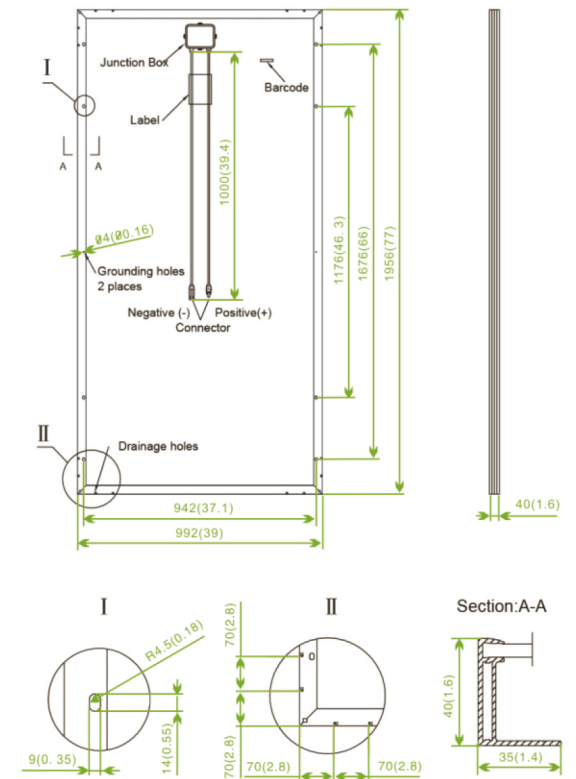
Pmax Temperature Coefficient	-0.40%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C

#### Mechanical Specifications

External Dimensions	1956×992×45mm	1956×992×40 mm
Weight	23 kg	22.5 kg
Solar Cells	Mono crystalline 156×156mm (72pcs)	Mono crystalline 156×156mm (72pcs)
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 mm <sup>2</sup> , cable length:1000 mm	4.0 mm <sup>2</sup> , cable length:1000 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa

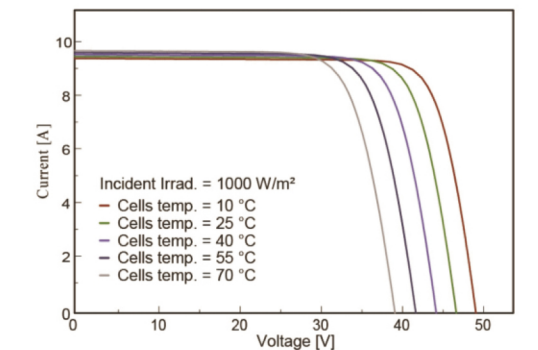
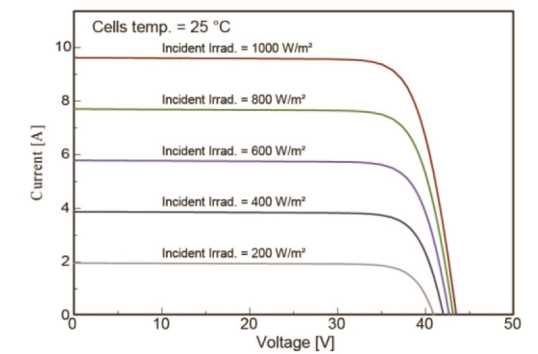
#### Packing Configuration

	1956×992×45mm		1956×992×40mm	
Container	20'GP	40'GP	20'GP	40'GP
Pieces per Pallet	23	23	26	26
Pallets per Container	10	22	10	22
Pieces per Container	230	506	260	572



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(INE340M)



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