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Solar Panel Guide Specification Data Sheet

Ideal New Energy Co., Ltd.

INE320-360M-72

INE-325M

Also available on the web at
EnergyPal.com/ideal-new-energy-co-ltd-solar-panels/ine-325m



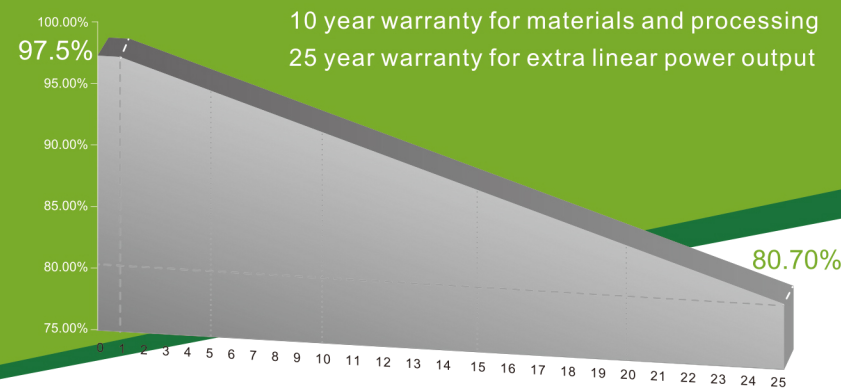
IDEAL MODULE

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/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

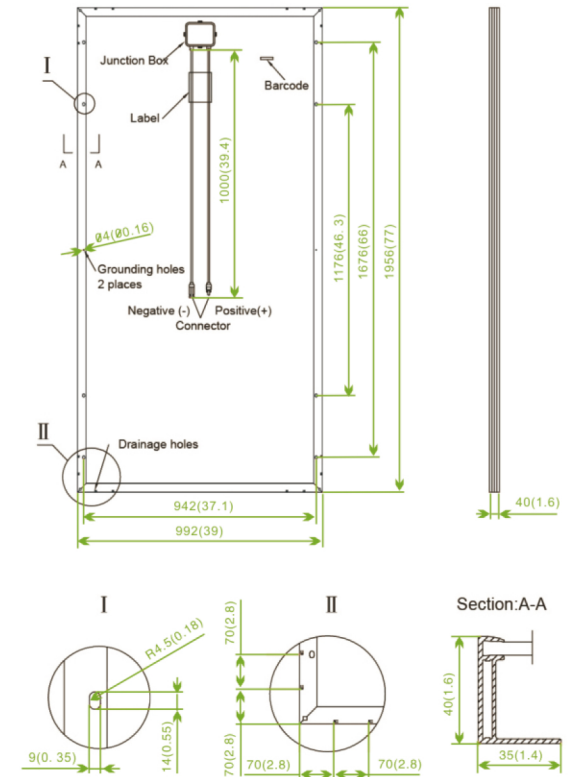
| | |
|--|--------------|
| Pmax Temperature Coefficient | -0.40%/°C |
| Voc Temperature Coefficient | -0.32%/°C |
| Isc Temperature Coefficient | +0.05%/°C |
| Operating Temperature | -40 ~ +85 °C |
| Nominal Operating Cell Temperature(NOCT) | 45±2 °C |

Mechanical Specifications

| | | |
|---------------------|--|--|
| External Dimensions | 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 ² , cable length:1000 mm | 4.0 mm ² , cable length:1000 mm |
| Connector | MC4 Compatible | MC4 Compatible |
| Mechanical Load | 5400 Pa | 5400 Pa |

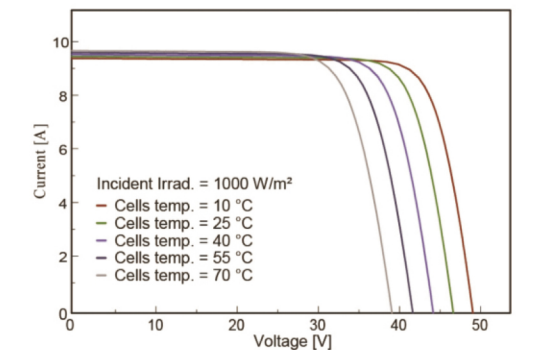
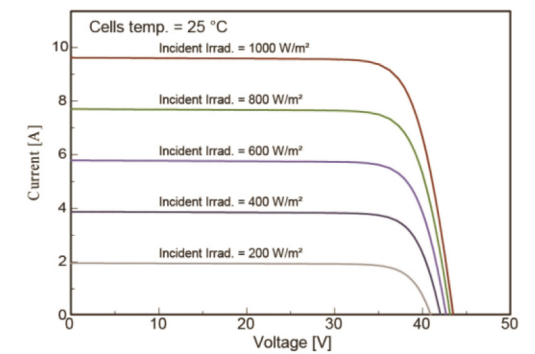
Packing Configuration

| | 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