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EnergyPal

Solar Panel Guide Specification Data Sheet

**AmySolar sas
ESC-270-300M60
ESC-270M60**

Also available on the web at
EnergyPal.com/amysolar-sas-solar-panels/esc-270m60

Mono & Poly-crystalline PV Module

Features

- € High conversion efficiency through advanced manufacturing technology
- € Excellent performance under weak light conditions (mornings, evenings and cloudy days)
- € Withstand snow loads up to 5400 Pa and wind loads up to 2400 Pa under extreme temperature
- € 12 years product warranty and 25 years performance warranty ensure reliability of modules
- € Easy installation

Certificates

- € Manufactured according to International Management System Standard
Quality Management system: ISO9001
Environmental Management System: ISO14001
Occupational Health and Safety Management System: OHSAS18001
- € Certified and approved by CE, INMETRO, TUV, IEC 61215, IEC 61730, MCS, CEC and PV CYCLE



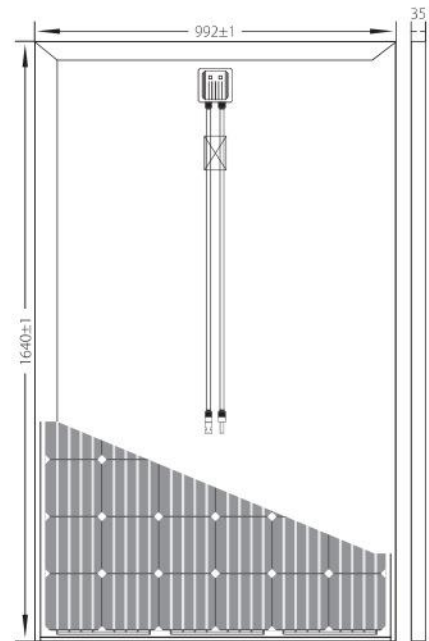
MONO-CRYSTALLINE MODULE

Electrical Characteristics under STC*

| Module Type | ECS-270M60 | ECS-275M60 | ECS-280M60 | ECS-285M60 | ECS-290M60 | ECS-295M60 | ECS-300M60 |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Maximum Power-Pmax (Wp) | 270 | 275 | 280 | 285 | 290 | 295 | 300 |
| Voltage at Maximum Power-Vmp (V) | 31.5 | 31.9 | 32.3 | 32.7 | 33.1 | 33.5 | 33.9 |
| Current at Maximum Power-Imp (A) | 8.57 | 8.62 | 8.67 | 8.72 | 8.76 | 8.81 | 8.86 |
| Open Circuit Voltage-Voc (V) | 38.5 | 38.9 | 39.3 | 39.8 | 40.2 | 40.6 | 41.0 |
| Short Circuit Current-Isc (A) | 9.35 | 9.43 | 9.50 | 9.55 | 9.62 | 9.75 | 9.83 |
| Module Efficiency-ηm (%) | 16.6 | 16.9 | 17.1 | 17.5 | 17.8 | 18.0 | 18.3 |
| Power Tolerance (%) | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 |

Mechanical Characteristics

| | | |
|-----------------|--|-----------------------|
| Cell Type | Mono-crystalline | 156×156 mm (6 inches) |
| Number of Cells | 60 (6×10) | |
| Dimension | 1640×992×35 mm (64.57×39.06×1.38 inches) | |
| Weight | 20.0 kg | |
| Front Glass | Low Iron Tempered Glass | |
| Encapsulant | EVA | |
| Frame | Anodized Aluminum Alloy | |



Temperature Characteristics

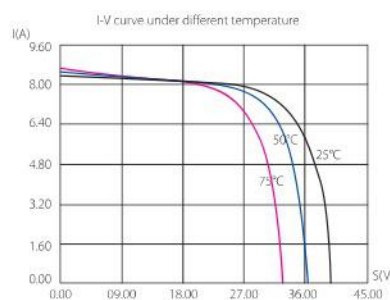
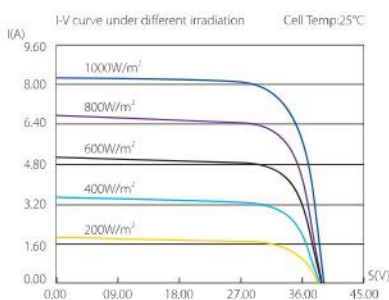
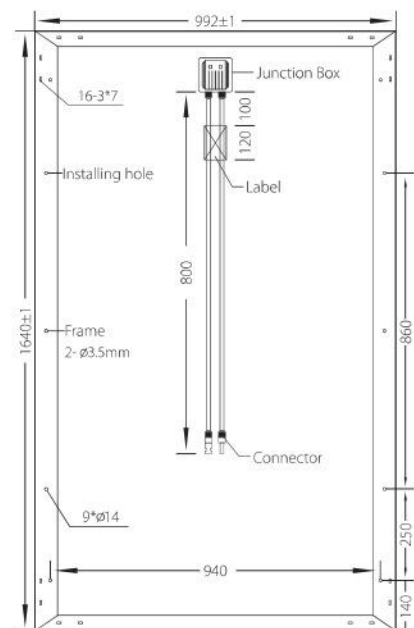
| | |
|-------------------------------------|----------|
| NOCT* | 45±2°C |
| Temperature Coefficient of Pmax (%) | -0.40/°C |
| Temperature Coefficient of Voc (%) | -0.31/°C |
| Temperature Coefficient of Isc (%) | 0.04/°C |

Maximum System Ratings

| | |
|----------------------------|----------------|
| Operating Temperature | -40°C to +80°C |
| Maximum System Voltage | 1000V DC |
| Maximum Series Fuse Rating | 16A |

Warranty

| |
|---------------------------------------|
| 12 years product warranty |
| 12 years warranty on 90% power output |
| 25 years warranty on 80% power output |



*STC (Standard Testing Conditions): Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5
ambient temperature 20 °C, wind speed 1 m/s

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m²,
The specifications in this datasheet are subjected to change without prior notice.

POLY-CRYSTALLINE MODULE

Electrical Characteristics under STC*

| Module Type | ECS-250P60 | ECS-255P60 | ECS-260P60 | ECS-265P60 | ECS-270P60 | ECS-275P60 | ECS-280P60 |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Maximum Power-Pmax (Wp) | 250 | 255 | 260 | 265 | 270 | 275 | 280 |
| Voltage at Maximum Power-Vmp (V) | 30.1 | 30.4 | 30.8 | 31.0 | 31.1 | 31.5 | 31.8 |
| Current at Maximum Power-Imp (A) | 8.32 | 8.39 | 8.44 | 8.55 | 8.68 | 8.73 | 8.81 |
| Open Circuit Voltage-Voc (V) | 37.50 | 37.60 | 37.80 | 38.05 | 38.17 | 38.3 | 38.52 |
| Short Circuit Current-Isc (A) | 8.73 | 8.79 | 8.85 | 8.96 | 9.09 | 8.98 | 9.1 |
| Module Efficiency- η m (%) | 15.4 | 15.7 | 16.0 | 16.2 | 16.5 | 16.9 | 17.2 |
| Power Tolerance (%) | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 | 0/+3 |

Mechanical Characteristics

| | | |
|-----------------|--|-----------------------|
| Cell Type | Poly-crystalline | 156x156 mm (6 inches) |
| Number of Cells | 60 (6x10) | |
| Dimension | 1640x992x35 mm (64.57x39.06x1.38 inches) | |
| Weight | 20.0 kg | |
| Front Glass | Low Iron Tempered Glass | |
| Encapsulant | EVA | |
| Frame | Anodized Aluminum Alloy | |

Temperature Characteristics

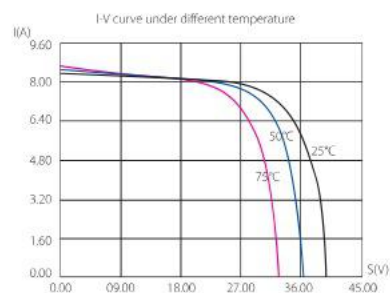
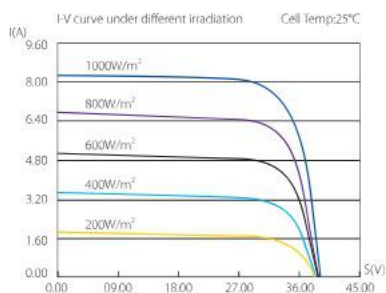
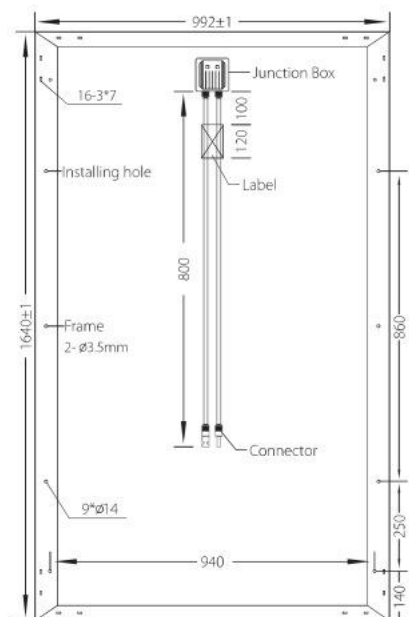
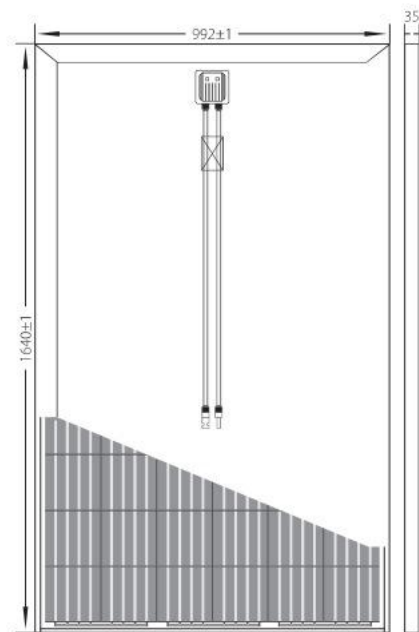
| | |
|-------------------------------------|----------|
| NOCT* | 45±2°C |
| Temperature Coefficient of Pmax (%) | -0.40/°C |
| Temperature Coefficient of Voc (%) | -0.31/°C |
| Temperature Coefficient of Isc (%) | 0.04/°C |

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| Operating Temperature | -40°C to +80°C |
| Maximum System Voltage | 1000V DC |
| Maximum Series Fuse Rating | 16A |

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