

EN156P-60S-265/270/275/280W

Smart Polycrystalline Solar Module 60-Cell Series

ABOUT ECONESS ENERGY

Established in 2009 by Jiangsu Huadong Group (founded in 1997), Econess Energy is a world's leading solution provider for solar energy. With annual production capacity of 800MW cells and 1.2GW modules. Econess Energy now distributes its PVproducts to over 36 countries with cumulative module shipment of 3GW. As a strong, bankable partner, we are committed to building strategic, mutually beneficial collaboration with installers and developers.



KEY FEATURES









2400 Pa wind load · 5400 Pa snow load · 25mm hail stones at 82 km/h



By module data collecting, it can realise the real-time monitoring, high-temp alarm and remote failure diagnosis

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Mangement System
- OHSAS 18001: 2007 Occupational Health and Safety Management System







QUALITY WARRANTY

ECONESS Energy guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in Econess Energy's installation manual for 10 years from the warranty starting date.

PERFORMANCE WARRANTY



Version No.:EN_2019_06

ELECTRICAL PARAMETERS

| Performance | at STC | Dower To | loranco (| 7 - +30% |
|---------------|--------|-----------|-----------|-----------|
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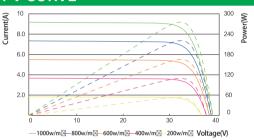
| | · | | | |
|------------------------------|-------|-------|-------|-------|
| Maximum Power(Pmax/W) | 265 | 270 | 275 | 280 |
| Operating Voltage (Vmpp/V) | 31.04 | 31.35 | 31.71 | 32.05 |
| Operating Current(Impp/A) | 8.55 | 8.62 | 8.68 | 8.75 |
| Open-Circuit Voltage (Voc/V) | 38.22 | 38.51 | 38.69 | 39.02 |
| Short-Circuit Current(Isc/A) | 9.04 | 9.09 | 9.16 | 9.24 |
| Module Efficiency ηm (%) | 16.19 | 16.50 | 16.80 | 17.11 |
| Performance at NMOT | | | | |
| Maximum Power(Pmax/W) | 196 | 199 | 203 | 207 |
| Operating Voltage(Vmpp/V) | 28.66 | 28.83 | 29.12 | 29.37 |
| Operating Current(Impp/A) | 6.84 | 6.91 | 6.98 | 7.05 |
| Open-Circuit Voltage(Voc/V) | 35.18 | 35.47 | 35.63 | 35.93 |
| Short-Circuit Current(Isc/A) | 7.33 | 7.37 | 7.43 | 7.50 |

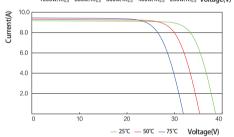
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

| Cell Type | Poly |
|---------------------------|--|
| Cell Dimensions | 156.75*156.75 mm (6 inch) |
| Cell Arrangement | 60 (6*10) |
| Weight | 18 kg (39.7 lbs) |
| Module Dimensions | 1650*992*35 mm (64.96*39.06*1.38 inch) |
| Cable Length | 900 mm (47.24 inch) |
| Cable Cross Section Size | 4 mm² (0.006 sq.in) |
| Front Glass | 3.2 mm High Transmission, Tempered Glass |
| No.of Bypass Diodes | 3 |
| Packing Configuration (1) | 31 pcs/Pallet, 868 pcs/40hq |
| Packing Configuration (2) | 31 pcs+4pcs/Pallet, 924 pcs/40hq |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP 68 |

I-V CURVE

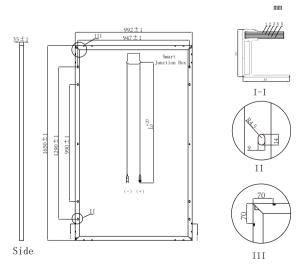




OPERATING CONDITIONS

| Maximum System Voltage | 1000V/DC(IEC)/1 500V/DC(IEC) | |
|------------------------|------------------------------|--|
| Operating Temp | -40°C - +85°C | |
| Maximum Series Fuse | 15 A | |
| Static Loading | 5400 Pa | |
| Conductivity at Ground | ≤ 0.1 Ω | |
| Safety Class | II | |
| Resistance | ≥100 MΩ | |
| Connector | MC4 Compatible | |

TECHNICAL DRAWINGS



TEMPERATURE COEFFICIENT

| Temperature Coefficient(Pmax) | -0.40%/°C |
|-------------------------------|-----------|
| Temperature Coefficient(Voc) | -0.31%/°C |
| Temperature Coefficient(Isc) | +0.06%/°C |
| NMOT | 45±2°C |

Econess Energy Co., Ltd.