

EN156P-60-265/270/275/280/285/290W

Polycrystalline Solar Module **60-Cell Series**

ABOUT ECONESS ENERGY

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



KEY FEATURES

Maximize limited space Maximum power output 280W



Highly reliable due to stringent quality control

In-house testing goes well beyond certification requirements



Lower temperature coefficients Enhance power generation



snow load · 25mm hail stones at 82 km/h

SYSTEM & PRODUCT CERTIFICATES

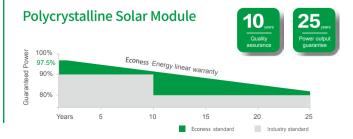
- IEC 61215 / IEC 61730 / UL 1703 •
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- OHSAS 18001 : 2007 Occupational Health and Safety Management System



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



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 - +3%)

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Maximum Power(Pmax/W)	265	270	275	280	285	290
Operating Voltage (Vmpp/V)	31.04	31.35	31.71	32.05	32.33	32.64
Operating Current(Impp/A)	8.55	8.62	8.68	8.75	8.82	8.89
Open-Circuit Voltage (Voc/V)	38.22	38.51	38.69	39.02	39.31	39.60
Short-Circuit Current(Isc/A)	9.04	9.09	9.16	9.24	9.30	9.36
Module Efficiency ηm (%)	16.19	16.50	16.80	17.11	17.41	17.72
Performance at NMOT		·				
Maximum Power(Pmax/W)	196	199	203	207	210	214
Operating Voltage(Vmpp/V)	28.66	28.83	29.12	29.37	29.65	29.98
Operating Current(Impp/A)	6.84	6.91	6.98	7.05	7.09	7.14
Open-Circuit Voltage(Voc/V)	35.18	35.47	35.63	35.93	36.18	36.43
Short-Circuit Current(Isc/A)	7.33	7.37	7.43	7.50	7.54	7.59
STC: Irradiance 1000W/m ² Coll Temperature 25°C	Air Mass AM1 5	NMOT: Irradianc	r_{0} at $800 W/m^2$ Am	biont Tomporatu	ro 20°C Wind Spo	od 1m/s

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

Current(A)

MECHANICAL SPECIFICATION

Cell Type	Poly
Cell Dimensions	6inch
Cell Arrangement	60(6*10)
Weight	18kg(39.7lbs)
Module Dimensions	1650*992*35mm(64.96*39.06*1.38inch)
Cable Length	900mm(47.24inch)
Cable Cross Section Size	4mm²(0.006sq.in)
Front Glass	3.2mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	30pcs/Pallet,840pcs/40hq
Packing Configuration (2)	30pcs+4pcs/Pallet, 896pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE 10 8.0 6.0 4.0 2.0 10 20 30 40 -200w/m² Voltage(V) 800w/m² 600w/m² 400w/m²

300

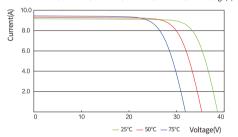
240

180

120

60 0

ower(W)



OPERATING CONDITIONS

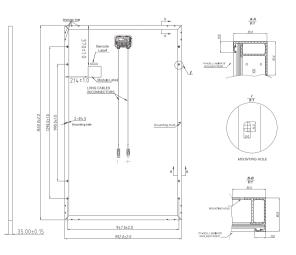
Maximum System Voltage	1500V/DC(IEC)
Operating Temp	-40°C-+85°C
Maximum Series Fuse	15A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	П
Resistance	≥100MΩ
Connector	Zhejiang Jiaming Tianheyuan Photovoltaic Technology Co., Ltd. 05-8/PV-JM601A

TEMPERATURE COEFFICIENT

Econess Energy Co., Ltd.

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

TECHNICAL DRAWINGS



Manufactured in China

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* This is preliminary datasheet and for reference only. The specifications and key features contained in this datasheet may deciate slightly from our actual products due to the on-going innovation and product enhancement. Econess Energy reserves the right to make necessary adjustment to the information describrd herein at any time without further notice.