

EN156M-60-295/300/305/310W

High Efficiency PERC Monocrystalline 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

- IP68 junction box The highest waterproof level
- Maximize limited space
 PERC cell technology, maximum
 power output 310W
- Excellent Anti-PID performance
 2 times of industry standard
 Anti-PID test by TUV (optional)
 PID certified to 1100V system voltage
- Excellent low light performance Advanced surface texturing · Back surface field
- Lower temperature coefficients Enhance power generation
- Highly reliable due to stringent quality control

In-house testing goes well beyond certification requirements

Certified to withstand the most challenging environmental conditions

2400 Pa wind load · 5400 Pa 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



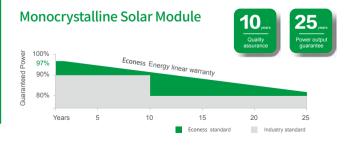




QUALITY WARRANTY

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



Version No.:EN_2018_10

ELECTRICAL PARAMETERS

Performance at STC	(Power To	lerance 0 - +3%	۱,
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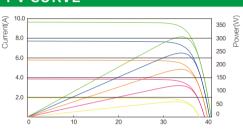
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Maximum Power(Pmax/W)	295	300	305	310
Operating Voltage (Vmpp/V)	32.61	32.9	33.22	33.53
Operating Current(Impp/A)	9.05	9.12	9.19	9.25
Open-Circuit Voltage (Voc/V)	39.52	39.71	39.90	40.12
Short-Circuit Current(Isc/A)	9.49	9.57	9.64	9.71
Module Efficiency ηm (%)	18.02	18.33	18.63	18.94
Performance at NMOT	-			
Maximum Power(Pmax/W)	217	221	225	229
Operating Voltage(Vmpp/V)	29.95	30.24	30.62	30.99
Operating Current(Impp/A)	7.25	7.31	7.35	7.39
Open-Circuit Voltage(Voc/V)	36.46	36.66	36.87	36.96
Short-Circuit Current(Isc/A)	7.70	7.75	7.80	7.84

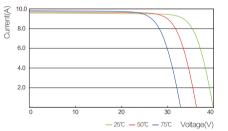
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono PERC
Cell Dimensions	6inch
Cell Arrangement	60(6*10)
Weight	18.0kg(39.7lbs)
Module Dimensions	1650*992*35mm(64.96*39.06*1.38inch)
Cable Length	900mm(35.4inch)
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

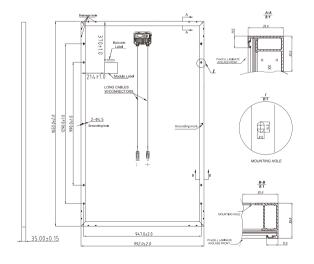




OPERATING CONDITIONS

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	II	
Resistance	≥100MΩ	
Connector	Zhejiang Jiaming Tianheyuan Photovoltaic Technology Co., Ltd. 05-8/PV-JM601A	

TECHNICAL DRAWINGS



TEMPERATURE COEFFICIENT

Temperature Coefficient(Pmax)	-0.39%/°C
Temperature Coefficient(Voc)	-0.30%/°C
Temperature Coefficient(Isc)	+0.05%/°C
NMOT	45±2°C