

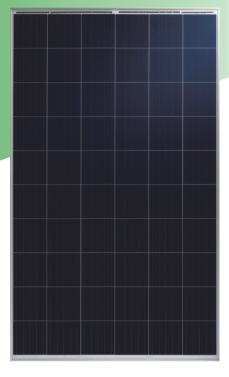
EN156M-60-315/320/325/330/335W

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 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 4GW. As a strong, bankable partner, we are committed to building strategic, mutually beneficial collaboration with installers and developers.



KEY FEATURES

- IP67 junction box
 The highest waterproof level
- Maximize limited space
 PERC cell technology, maximum
 power output 335W
- Excellent Anti-PID performance 2 times of industry standard Anti-PID test by TUV
- Excellent low light performance
 Advanced surface texturing · Back
 surface field





In-house testing goes well beyond certification requirements



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



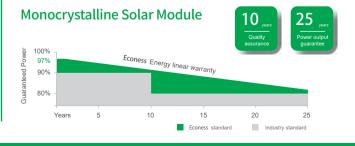




QUALITY WARRANTY

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



ELECTRICAL PARAMETERS

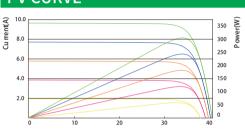
Performance at STC (Power Tolerance 0 - +3%)					
Maximum Power(Pmax/W)	315	320	325	330	335
Operating Voltage (Vmpp/V)	33.85	34.16	34.45	34.76	35.04
Operating Current(Impp/A)	9.31	9.37	9.42	9.48	9.54
Open-Circuit Voltage (Voc/V)	40.34	40.55	40.75	40.96	41.16
Short-Circuit Current(Isc/A)	9.78	9.86	9.92	9.99	10.05
Module Efficiency ηm (%)	18.88	19.18	19.48	19.78	20.08
Performance at NMOT					
Maximum Power(Pmax/W)	233	237	241	244	247
Operating Voltage(Vmpp/V)	31.36	31.73	32.08	32.44	32.79
Operating Current(Impp/A)	7.43	7.47	7.51	7.55	7.59
Open-Circuit Voltage(Voc/V)	37.12	37.31	37.42	37.53	37.69
Short-Circuit Current(Isc/A)	7.88	7.92	7.96	8.01	8.05

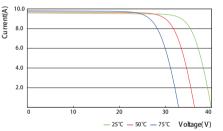
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono PERC · 5BB
Cell Dimensions	6 inch (158.75 x 158.75 mm)
Cell Arrangement	60 (6 x 10)
Weight	18.5 kg (40.79 lb)
Module Dimensions	1665 x 1002 x 35 mm (65.55 x 39.45 x 1.38 inch)
Cable Length	900 mm (35.4 inch)
Cable Cross Section Size	4 mm² (0.006 sq.in)
Front Glass	3.2 mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/Pallet, 868pcs/40hq
Packing Configuration (2)	31pcs+4pcs/Pallet, 924pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP67

I-V CURVE

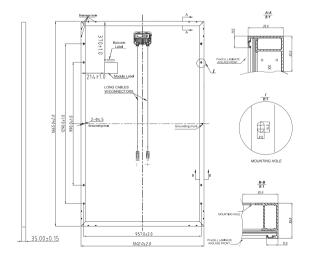




OPERATING CONDITIONS

Maximum System Voltage	1000V/DC(IEC) / 1500V/DC(IEC)
Operating Temp	-40°C ~+85°C
Maximum Series Fuse	15A / 20A
Static Loading	5400 Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Connector	MC4 Compatible

TECHNICAL DRAWINGS (mm)



TEMPERATURE COEFFICIENT

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

Econess Energy Co., Ltd.