EN156M-144-360/365/370/375W

High Efficiency PERC Monocrystalline Solar Module
144 Half-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

Maximize limited space
Half cell technology (low Rs) combine with PERC, more internal reflection, maximum power output 375W

Significantly reduce the hot spot effect
Unique circuit design significantly reduces hot spot temperature and power loss

IP68 junction box
The highest waterproof level

Excellent Anti-PID performance
2 times of industry standard Anti-PID test by TUV

Lower temperature coefficients
Enhance power generation

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

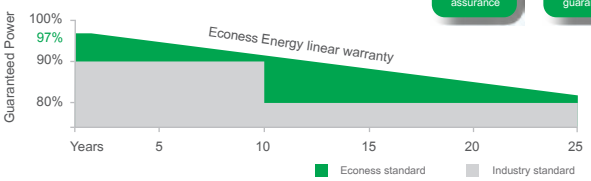
Econess Energy guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in Econess Energy's installation manual for 10 years from the warranty starting date.

PERFORMANCE WARRANTY

Monocrystalline Solar Module

10 years — Quality assurance

25 years — Power output guarantee



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ELECTRICAL PARAMETERS

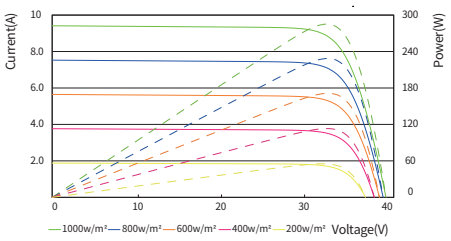
Performance at STC (Power Tolerance 0 - +3%)				
Maximum Power(Pmax/W)	360	365	370	375
Operating Voltage (Vmpp/V)	39.14	39.32	39.62	39.89
Operating Current(Impp/A)	9.20	9.29	9.34	9.41
Open-Circuit Voltage (Voc/V)	47.84	48.04	48.31	48.59
Short-Circuit Current(Isc/A)	9.69	9.77	9.84	9.91
Module Efficiency ηm (%)	18.15	18.40	18.65	18.90
Performance at NMOT				
Maximum Power(Pmax/W)	266	270	274	278
Operating Voltage(Vmpp/V)	36.11	36.35	36.64	36.92
Operating Current(Impp/A)	7.37	7.43	7.48	7.53
Open-Circuit Voltage(Voc/V)	44.15	44.36	44.68	44.93
Short-Circuit Current(Isc/A)	7.85	7.90	7.95	8.01

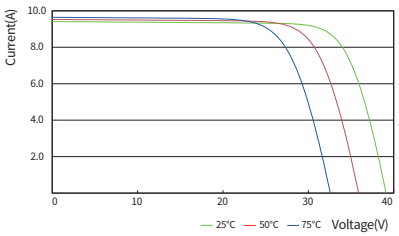
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Half-Cell Mono PERC
Cell Dimensions	6inch
Cell Arrangement	144(6*24)
Weight	23kg(50.71lbs)
Module Dimensions	2000*992*40mm(78.74*39.06*1.57inches)
Cable Length	300mm(11.81inch)
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)	27pcs/Pallet,594pcs/40hq
Packing Configuration (2)	27pcs+4pcs/Pallet, 638pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE





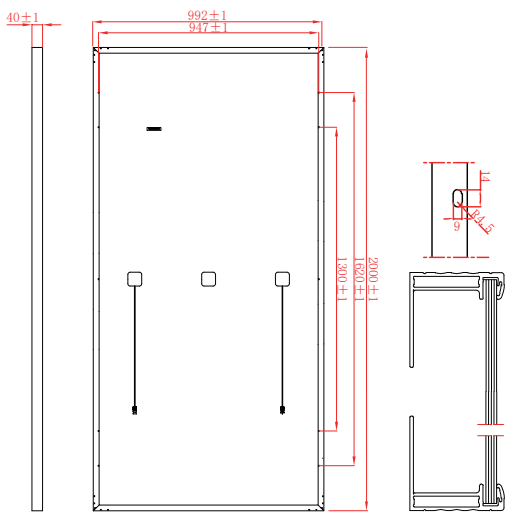
OPERATING CONDITIONS

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

TEMPERATURE COEFFICIENT

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

TECHNICAL DRAWINGS



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