

# EN156M-72-360/365/370/375/380w

High Efficiency PERC Monocrystalline Solar Module 72-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**

Provide the second seco

Maximize limited space PERC cell technology, maximum power output 380W

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

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



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

#### SYSTEM & PRODUCT CERTIFICATES

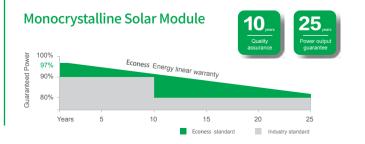
- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- OHSAS 18001 : 2007 Occupational Health and Safety Management System



#### **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%)

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Maximum Power(Pmax/W)	360	365	370	375	380
Operating Voltage (Vmpp/V)	39.14	39.32	39.62	39.89	40.15
Operating Current(Impp/A)	9.20	9.29	9.34	9.41	9.47
Open-Circuit Voltage (Voc/V)	47.84	48.04	48.31	48.59	48.81
Short-Circuit Current(Isc/A)	9.69	9.77	9.84	9.91	9.99
Module Efficiency ηm (%)	18.52	18.77	19.03	19.29	19.54
Performance at NMOT		;		1	;
Maximum Power(Pmax/W)	266	270	274	278	282
Operating Voltage(Vmpp/V)	36.11	36.35	36.64	36.92	37.16
Operating Current(Impp/A)	7.37	7.43	7.48	7.53	7.59
Open-Circuit Voltage(Voc/V)	44.15	44.36	44.68	44.93	45.18
Short-Circuit Current(Isc/A)	7.85	7.90	7.95	8.01	8.06
STC: Irradiance 1000W/m <sup>2</sup> Coll Temperature 25°C A	r Mass AM1.5 NM0	T: Irradianco at 800	N/m <sup>2</sup> Ambiont Tomr	oraturo 20°C Wind	Spood 1m/s

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

#### **MECHANICAL SPECIFICATION**

Mono PERC · 5BB
6 inch (156.75 x 156.75 mm)
72 (6 x 12)
22 kg (48.5 lb)
1960 x 992 x 40 mm(77.17 x 39.06 x 1.57 inch)
1200 mm (47.24 inch)
4 mm² (0.006 sq.in)
3.2 mm High Transmission, Tempered Glass
3/6
27pcs/Pallet, 648pcs/40hq
27pcs+4pcs/Pallet, 696pcs/40hq
Anodized Aluminium Alloy
IP67

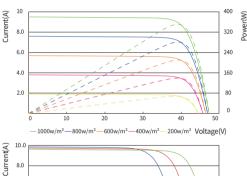
#### **OPERATING CONDITIONS**

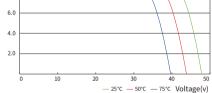
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1000V/DC(IEC) / 1500V/DC(IEC)
-40°C ~+85°C
15A / 20A
5400 Pa
≤ 0.1Ω
П
≥ 100MΩ
MC4 Compatible

#### **TEMPERATURE COEFFICIENT**

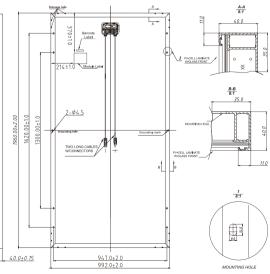
Temperature Coefficient(Pmax)	-0.39%/°C
Temperature Coefficient(Voc)	-0.30%/°C
Temperature Coefficient(Isc)	+0.05%/°C
NMOT	45±2°C

#### **I-V CURVE**





### TECHNICAL DRAWINGS (mm)



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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.