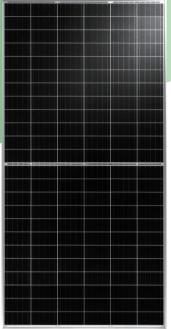


EN156M-144-385/390/395/400/405w

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

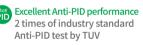


KEY FEATURES

Maximize limited space Half cell technology (low Rs) combine with PERC, more internal reflection, maximum power output 405W



PIP67 junction box The highest waterproof level



Lower temperature coefficients Enhance power generation



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

SYSTEM & PRODUCT CERTIFICATES

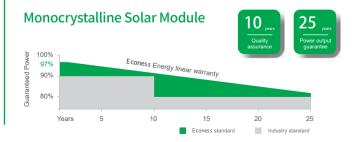
- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- OHSAS 18001 : 2007 Occupational Health and Safety Management System



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%)

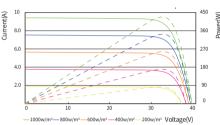
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Maximum Power(Pmax/W)	385	390	395	400	405
Operating Voltage (Vmpp/V)	40.43	40.69	40.94	41.20	41.47
Operating Current(Impp/A)	9.53	9.59	9.66	9.72	9.78
Open-Circuit Voltage (Voc/V)	49.11	49.34	49.55	49.79	50.04
Short-Circuit Current(Isc/A)	10.07	10.15	10.22	10.31	10.39
Module Efficiency ηm (%)	19.14	19.38	19.63	19.88	20.13
Performance at NMOT		·	·		
Maximum Power(Pmax/W)	286	290	293	297	300
Operating Voltage(Vmpp/V)	37.39	37.62	37.62	38.11	38.35
Operating Current(Impp/A)	7.64	7.71	7.76	7.82	7.88
Open-Circuit Voltage(Voc/V)	45.44	45.67	45.92	46.18	46.42
Short-Circuit Current(Isc/A)	8.12	8.17	8.22	8.28	8.34
STC: Irradiance 1000W/m ² Coll Temperate	ro 25°C Air Mass AM1 5	NMOT Irradianco at	t 800W/m ² Ambient T	omporaturo 20°C Wir	nd Spood 1m/s

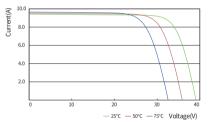
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Half-Cell · Mono PERC · 5BB
Cell Dimensions	6 inch (158.75 x 158.75 mm)
Cell Arrangement	144 [2 x (12 x 6)]
Weight	24 kg (52.91 lb)
Module Dimensions	2008 x 1002 x 40 mm (79.05 x 39.45 x 1.57 inch)
Cable Length	300 mm (11.81 inch)
Cable Cross Section Size	4 mm ² (0.006 sq.in)
Front Glass	3.2 mm 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	IP67

I-V CURVE





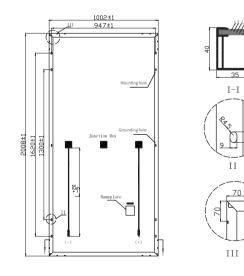
OPERATING CONDITIONS

Maximum System Voltage	1000V (IEC) DC / 1500V (IEC) DC	
Operating Temp	-40°C ~ +85°C	
Maximum Series Fuse	15 A / 20 A	
Static Loading	5400 Pa	
Conductivity at Ground	≤ 0.1 Ω	
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 (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.