

EN166M-120-365/370/375/380/385w

High Efficiency PERC Monocrystalline Solar Module 120 Half-Cell Series

ABOUT ECONESS ENERGY

Established in 2009, Econess Energy is engaged in PV power station development and PV module production. With current annual production capacity of 5GW modules, Econess Energy now distributes its PV products all over the world, such as Germany, Spain, Italy, France, India, Japan ect. As a strong, bankable partner, we are committed to building strategic, mutually beneficial collaboration with installers and developers.



KEY FEATURES

Multi Busbar Technology Better light trapping and current collection to improve module power output and reliability



IP68 junction box High waterproof level

PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Lower temperature coefficients Enhance power generation

High customer value Lower BOS cost and LCOE

SYSTEM & PRODUCT CERTIFICATES

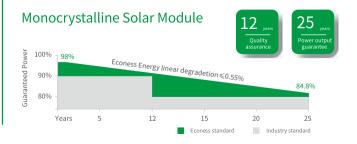
- IEC 61215 / IEC 61730
- IEC 61701 / IEC 62804
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- ISO 45001 : 2018 Occupational Health and Safety Management System



QUALITY WARRANTY

Econess Energy guarantees that defects will not appear in materials and workmanship defined by IEC61215 or IEC61730 under normal installation, use and maintenance as specified in Econess Energy's installation manual for 12 years from the warranty starting date.

PERFORMANCE WARRANTY



ELECTRICAL PARAMETERS

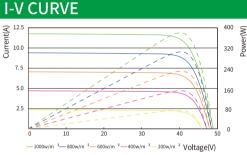
Performance at STC (Power Tolerance 0 - +3%)

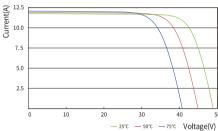
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Maximum Power(Pmax/W)	365	370	375	380	385
Operating Voltage (Vmpp/V)	36.80	37.07	37.35	37.68	38.01
Operating Current(Impp/A)	9.92	9.99	10.05	10.10	10.13
Open-Circuit Voltage (Voc/V)	42.18	42.33	42.48	42.62	42.76
Short-Circuit Current(Isc/A)	10.47	10.53	10.60	10.6	10.74
Module Efficiency ŋm (%)	20.04	20.31	20.59	20.86	21.13
Performance at NMOT			·		
Maximum Power(Pmax/W)	274	278	282	287	291
Operating Voltage(Vmpp/V)	34.96	35.31	35.65	36.04	36.43
Operating Current(Impp/A)	7.83	7.87	7.91	7.95	7.99
Open-Circuit Voltage(Voc/V)	38.52	38.63	38.79	38.90	39.01
Short-Circuit Current(Isc/A)	8.36	8.41	8.46	8.51	8.56

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

120 [2 x (10 x 6)] **Cell Arrangement** Weight 20.0 kg (44.09 lb) Module Dimensions 1755 x 1038 x 35mm(69.09 x 40.87 x 1.38 inch) Cable Length 300 mm (11.81 inch) or Customized Length Cable Cross Section Size 4mm² (0.006 sq.in) 3.2 mm High Transmission, Tempered Glass Front Glass No.of Bypass Diodes 3 Packing Configuration (1) 31pcs/Pallet, 806pcs/40hq 31pcs+4pcs/Pallet, 858pcs/40hq Packing Configuration (2) Anodized Aluminium Alloy Frame IP68 Junction Box





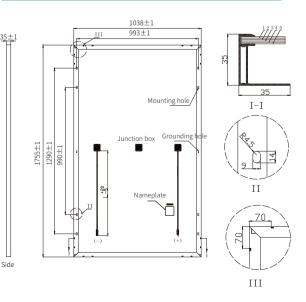
OPERATING CONDITIONS

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