

EN158P-120- 285/290/295/300/305W

Polycrystalline Solar Module 120 Half-Cell Series

ABOUT ECONESS ENERGY

Established in 2009 by Jiangsu Huadong Group (founded in 1997), Econess Energy is a professional solution provider for solar energy. With current annual production capacity of 1 GW cells and 3GW modules, Econess Energy now distributes its PV products to over 36 countries. 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 structure technology
 (low resistance characteristics),
 more Internal reflection, Module
 maximum power output 305W
- Significantly reduce the hot spot effect Unique circuit design significantly reduces hot spot temperature and power loss
- IP68 junction box The highest waterproof level





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
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Mangement System
- ISO 45001 : 2018 Occupational Health and Safety Management System

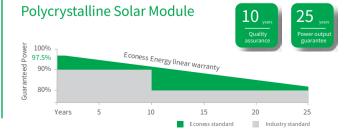




QUALITY WARRANTY

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 10 years from the warranty starting date.

PERFORMANCE WARRANTY



7.59 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

Short-Circuit Current(Isc/A)

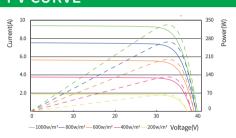
Cell Type	Poly-crystalline · 9BB	
Cell Dimensions	158.75x158.75mm	
Cell Arrangement	120 [2 x (10 x 6)]	
Weight	21kg (46.30 lb)	
Module Dimensions	1692 x 1002 x 35 mm (66.61 x 39.45 x 1.38 inch)	
Cable Length	300 mm (11.81 inch)	
Cable Cross Section Size	4 mm² (0.006 sq.in)	
Front Glass	3.2 mm High Transmission, Tempered Glass	
No.of Bypass Diodes	3/6	
Packing Configuration (1)	31pcs/Pallet, 806pcs/40hq	
Packing Configuration (2)	31pcs+4pcs/Pallet, 858pcs/40hq	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68 Rated	

36.18

7.54

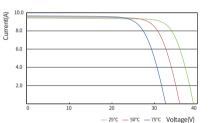
I-V CURVE

7.63



7.67

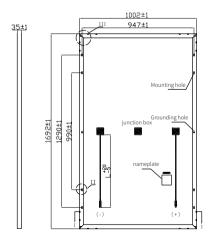
7.74

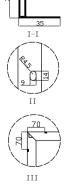


OPERATING CONDITIONS

Maximum System Voltage	1000V (IEC) DC / 1500V (IEC) DC
Operating Temp	-40°C ~ +85°C
Maximum Series Fuse	15 A
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)	-0.40%/°C
Temperature Coefficient(Voc)	-0.31%/°C
Temperature Coefficient(Isc)	+0.06%/°C
NMOT	45±2℃