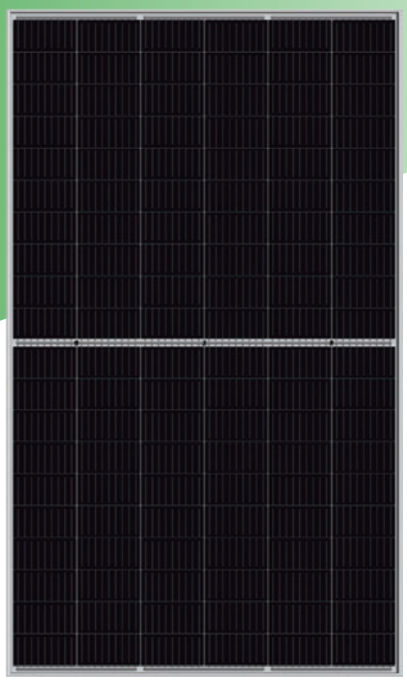
EN158M-120D-325/330/335/340/345W

Bifacial Dual Glass Monocrystalline Solar Module
120 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 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 technology (low Rs) combine more internal reflection, maximum power output 345W

Bifacial Power Generation
Bifacial cell technolo gy, 5%~25% more yield depends on different conditions

IP68 junction box
The highest waterproof level

ZERO PID
Bifacial double glass design, PID free

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

QUALITY WARRANTY

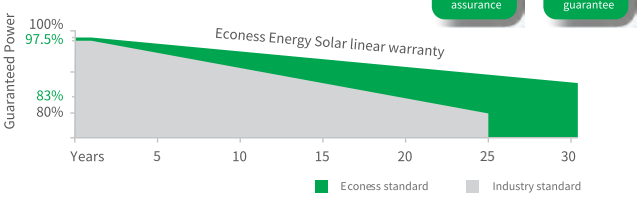
Econess Energy guarantees that defects will not appear in materials and workmanship defined by IEC61215 or IEC61730 under normal installation, use and maintenance as specified in Econess Energy's installation manual for 12 years from the warranty starting date.

PERFORMANCE WARRANTY

Bifacial Dual Glass Monocrystalline Solar Module

12 years Quality assurance

30 years Power output guarantee



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 - +3%)					
Maximum Power(Pmax/W)	325	330	335	340	345
Operating Voltage (Vmpp/V)	34.45	34.76	35.04	35.31	35.59
Operating Current(Impp/A)	9.42	9.48	9.54	9.61	9.66
Open-Circuit Voltage (Voc/V)	40.75	40.96	41.16	41.37	41.55
Short-Circuit Current(Isc/A)	9.92	9.99	10.05	10.12	10.19
Module Efficiency ηm (%)	18.77	19.06	19.35	19.64	19.93
Performance at NMOT					
Maximum Power(Pmax/W)	241	244	247	250	254
Operating Voltage(Vmpp/V)	32.08	32.44	32.79	33.13	33.52
Operating Current(Impp/A)	7.51	7.55	7.59	7.62	7.66
Open-Circuit Voltage(Voc/V)	37.42	37.53	37.69	37.84	37.99
Short-Circuit Current(Isc/A)	7.96	8.01	8.05	8.09	8.14

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

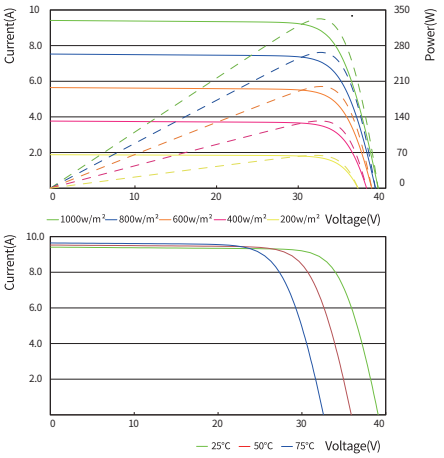
Electrical characteristics with different rear side power again (reference to 345W front)

Pmax gain(%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	362	380	397	414	431
Maximum Power Voltage (Vmpp/V)	35.59	35.59	35.59	35.59	35.59
Maximum Power Current (Impp/A)	10.14	10.63	11.11	11.59	12.08

MECHANICAL SPECIFICATION

Cell Type	Half-Cell · Mono PERC · 9BB
Cell Dimensions	6 inch (158.75 x 158.75 mm)
Cell Arrangement	120 [2 x (10 x 6)]
Weight	22.1 kg (48.72 lb)
Module Dimensions	1714 x 1010 x 30 mm (67.48 x 39.76 x 1.18 i nch)
Cable	300 mm (11.81 inch) · 4 mm² (0.006 sq.in)
Front Glass	2.5 mm High Transmission, Tempered Glass
Packing Configuration (1)	36pcs/Pallet, 936pcs/40hq
Packing Configuration (2)	36pcs+4pcs/Pallet, 988pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68, Bypass Diodes x 3

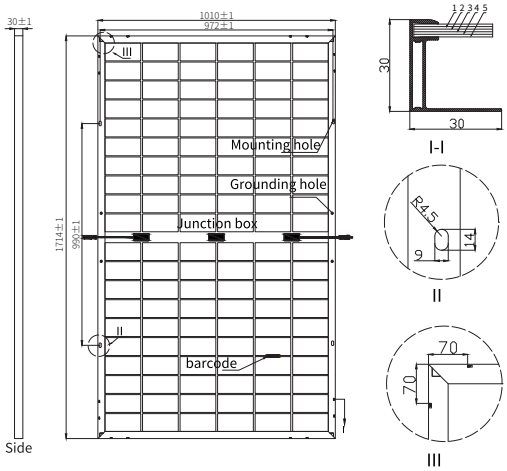
I-V CURVE



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
Connector	MC4 Compatible

TECHNICAL DRAWINGS (mm)



TEMPERATURE COEFFICIENT

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

Econess Energy Co., Ltd.

58 Haida Road, Huashi, Jiangyin, Jiangsu, P.R. China 214421 +86-510-86076868 sales@eco-pv.com www.eco-pv.com

Version No.:EN_2020_11