

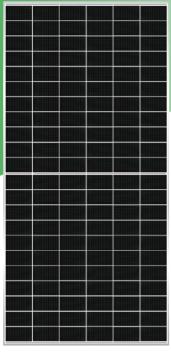
EN210N-132D-685/690/695/700/705W

Bifacial Dual Glass N-type Monocrystalline Solar Module

132 Half-cell Series

ABOUT FCONESS ENERGY

Established in 2009, Econess Energy is engaged in PV power station development and PV module production. With current annual production capacity of 12GW 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



collection to improve module power output and reliability

coefficients Enhance power generation

Lower temperature

IP68 junction box High waterproof level



Bifacial power generation Bifacial cell technology, 5% to 25% more yield depends on

different conditions Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa)

High customer value Lower BOS cost and LCOE

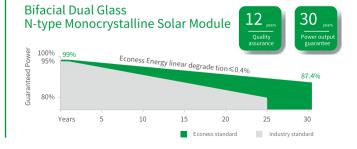
SYSTEM CERTIFICATES

- 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 Toler	ance 0 - +5w)				
Maximum Power(Pmax/W)	685	690	695	700	705
Operating Voltage (Vmpp/V)	39.80	40.10	40.30	40.50	40.70
Operating Current(Impp/A)	17.19	17.23	17.25	17.29	17.33
Open-Circuit Voltage (Voc/V)	47.70	47.90	48.30	48.60	48.80
Short-Circuit Current(Isc/A)	18.21	18.25	18.28	18.32	18.36
Module Efficiency ηm (%)	22.05	22.21	22.37	22.53	22.70
Performance at NOCT					
Maximum Power(Pmax/W)	521	526	530	534	538
Operating Voltage(Vmpp/V)	37.30	37.70	37.80	38.00	38.20
Operating Current(Impp/A)	13.94	13.96	14.02	14.05	14.08
Open-Circuit Voltage(Voc/V)	45.20	45.40	45.80	46.00	46.20
Short-Circuit Current(Isc/A)	14.67	14.71	14.73	14.76	14.80

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

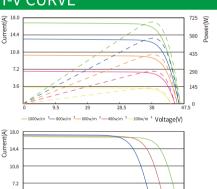
Electrical characteristics with different rear side power again (reference to 705W front)

Pmax gain(%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	740.3	775.5	810.8	846.0	881.3
Maximum Power Voltage (Vmpp/V)	40.70	40.70	40.70	40.70	40.70
Maximum Power Current (Impp/A)	18.20	19.06	19.93	20.80	21.66

MECHANICAL SPECIFICATION

Cell Arrangement	132 [2 x (11 x 6)]
Weight	37 kg(81.57 lb)
Module Dimensions	2384 x1303 x 33mm(93.84 x 51.30 x 1.30 inch)
Cable	350mm (13.78 inch) · 4 mm² (0.006 sq.in)
Front Glass	2.0 mm High Transmission, Tempered Glass
Packing Configuration	33pcs/Pallet, 594pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE



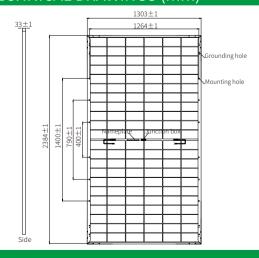
OPERATING CONDITIONS

Maximum System Voltage	1500V (IEC/UL) DC
Operating Temp	-40°C ~ +85°C
Maximum Fuse Rating	30 A
Static Loading	5400 Pa
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

Temperature Coefficient(Pmax)	-0.30%/°C	
Temperature Coefficient(Voc)	-0.24%/°C	
Temperature Coefficient(Isc)	+0.04%/°C	
NOCT	43±2°C	

TECHNICAL DRAWINGS (mm)



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