

EN210M-110D-535/540/545/550/555w

Bifacial Dual Glass Monocrystalline Solar Module 110 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 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.

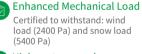


KEY FEATURES

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

Lower temperature coefficients Enhance power generation

IP68 junction box High waterproof level Bifacial power generation Bifacial cell technology, 5% to 25% more yield depends on different conditions



High customer value Lower BOS cost and LCOE

SYSTEM & PRODUCT CERTIFICATES

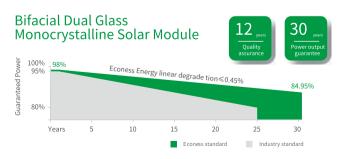
- IEC 61215 / IEC 61730
- IEC 61701 / IEC 62804
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- ISO 45001 : 2018 Occupational Health and Safety Management System



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.+5W)

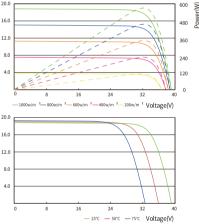
renormance at STC (rower for						
Maximum Power(Pmax/W)	535	540	545	550	555	
Operating Voltage (Vmpp/V)	31.36	31.56	31.76	31.96	32.16	
Operating Current(Impp/A)	17.07	17.12	17.17	17.22	17.27	
Open-Circuit Voltage (Voc/V)	37.66	37.88	38.10	38.32	38.54	
Short-Circuit Current(Isc/A)	18.07	18.13	18.18	18.23	18.28	
Module Efficiency ŋm (%)	20.48	20.67	20.86	21.05	21.24	
Performance at NOCT	· · · ·		·	· · ·		
Maximum Power(Pmax/W)	405.4	409.1	412.9	416.8	420.6	
Operating Voltage(Vmpp/V)	29.10	29.29	29.47	29.66	29.84	
Operating Current(Impp/A)	13.93	13.97	14.01	14.05	14.09	
Open-Circuit Voltage(Voc/V)	35.02	35.23	35.43	35.64	35.84	
Short-Circuit Current(Isc/A)	14.82	14.87	14.91	14.95	14.99	
STC: Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass AM1.5		1.5 NOCT: Irrad	NOCT: Irradiance 800W/m², Ambient Temperature 25°C, Wind Speed 1m/			

Electrical characteristics with different rear side power again (reference to 555W front) Pmax gain(%) 5% 10% 15% 20% 25% Maximum Power (Pmax/W) 582.8 610.5 638.3 666.0 693.8 Maximum Power Voltage (Vmpp/V) 32.16 32.16 32.16 32.16 32.16 Maximum Power Current (Impp/A) 19.00 19.86 20.72 21.59 18.13

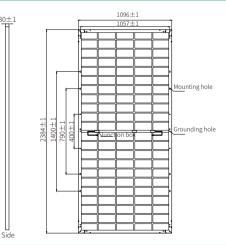
MECHANICAL SPECIFICATION				
Cell Arrangement	110 [2 x (11 x 5)]			
Weight	31 kg(68.34 lb)			
Module Dimensions	2384 x 1096 x 30 mm(93.86 x 43.15 x 1.18 inch)			
Cable	350 mm(13.78 inch) · 4mm²(0.006 sq.in)			
Front Glass	2.0 mm High Transmission, Tempered Glass			
Packing Configuration	36pcs/Pallet, 720pcs/40hq			
Frame	Anodized Aluminium Alloy			
Junction Box	IP68			

I-V CURVE

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TECHNICAL DRAWINGS (mm)



OPERATING CONDITIONS

Maximum System Voltage	1500V (IEC/UL) DC	
Operating Temp	-40°C ~ +85°C	
Maximum Fuse Rating	35 A	
Static Loading	5400 Pa	
Connector	MC4 Compatible	

TEMPERATURE COEFFICIENT

Temperature Coefficient(Pmax)	-0.34%/°C
Temperature Coefficient(Voc)	-0.25%/°C
Temperature Coefficient(Isc)	+0.04%/°C
NOCT	44±2°C

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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 described herein at any time without further notice.