

EN182M-144-530/535/540/545/550W

High Efficiency PERC Monocrystalline Solar Module

144 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



Enhanced Mechanical Load

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





PID Resistance

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



Lower temperature

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





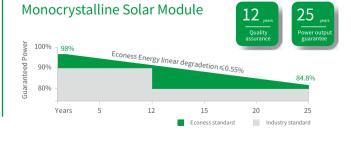




QUALITY WARRANTY

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

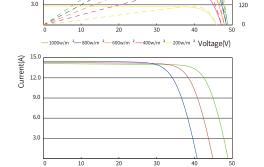
olerance 0 - +3%)				
530	535	540	545	550
41.43	41.60	41.76	41.93	42.10
12.79	12.86	12.93	13.00	13.06
49.30	49.50	49.70	49.90	50.10
13.52	13.61	13.72	13.81	13.90
20.52	20.71	20.90	21.10	21.29
396.1	399.8	403.5	407.3	411.1
38.61	38.77	38.92	39.08	39.24
10.26	10.31	10.37	10.42	10.48
46.59	46.78	46.97	47.16	47.32
10.97	11.04	11.13	11.20	11.26
	530 41.43 12.79 49.30 13.52 20.52 396.1 38.61 10.26 46.59	530 535 41.43 41.60 12.79 12.86 49.30 49.50 13.52 13.61 20.52 20.71 396.1 399.8 38.61 38.77 10.26 10.31 46.59 46.78	530 535 540 41.43 41.60 41.76 12.79 12.86 12.93 49.30 49.50 49.70 13.52 13.61 13.72 20.52 20.71 20.90 396.1 399.8 403.5 38.61 38.77 38.92 10.26 10.31 10.37 46.59 46.78 46.97	530 535 540 545 41.43 41.60 41.76 41.93 12.79 12.86 12.93 13.00 49.30 49.50 49.70 49.90 13.52 13.61 13.72 13.81 20.52 20.71 20.90 21.10 396.1 399.8 403.5 407.3 38.61 38.77 38.92 39.08 10.26 10.31 10.37 10.42 46.59 46.78 46.97 47.16

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

Cell Arrangement	144 [2 x (12 x 6)]	
Weight	27.5 kg(60.63 lb)	
Module Dimensions	2278 x 1134 x 35mm(89.69 x 44.65 x 1.38 incl	
Cable Length	300 mm (11.81 inch) or Customized Length	
Cable Cross Section Size	4 mm² (0.006 sq.in)	
Front Glass	3.2 mm High Transmission, Tempered Glass	
No.of Bypass Diodes	3	
Packing Configuration	31pcs/Pallet, 620pcs/40hq	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68	





__ 25°C ___ 50°C ___ 75°C Voltage(V)

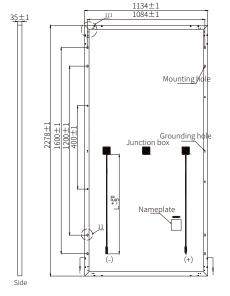
OPERATING CONDITIONS

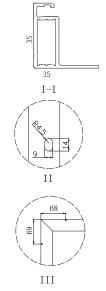
Maximum System Voltage	1500V (IEC) DC
Operating Temp	-40°C ~ +85°C
Maximum Series Fuse	25 A
Static Loading	5400 Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

Temperature Coefficient(Pmax)	-0.35%/°C
Temperature Coefficient(Voc)	-0.27%/°C
Temperature Coefficient(Isc)	+0.045%/°C
NMOT	41±2°C

TECHNICAL DRAWINGS (mm)





600

480 360

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