Beam 2 All Black

Black Frame (182mm)

390-405W

Mono PFRC Half Cell Module **ENSP54M2 Series**







Key Features



Lower power loss

Better performance in shaded and low-light conditions



Higher efficiency

Higher module power efficiency up to 20.6%



Lower operating temperatures

Low operating temperatures and coefficients increases performance



Half Cell technology

Excellent performance under real conditions



Keeps going and going

Engineered and designed to withstand harsh environments

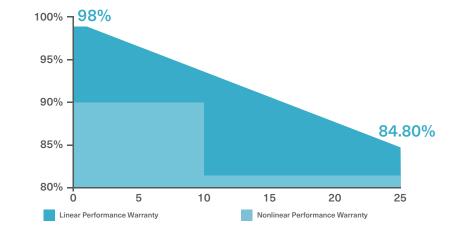
Warranty



Product warranty



Linear power output warranty $(1^{st} \text{ year} \le 2.0\%, 2^{nd} \sim 25^{th} \text{ years})$ $\leq 0.55\% / year)$





















Electrical Specifications

STC rated output (P _{mpp})	390 Wp	395 Wp	400 Wp	405 Wp
Rated voltage (V _{mpp}) at STC	30.76 V	30.92 V	31.09 V	31.26 V
Rated current (I _{mpp}) at STC	12.68 A	12.77 A	12.86 A	12.96 A
Open circuit voltage (V _{oc}) at STC	36.60 V	36.80 V	37.00 V	37.20 V
Short circuit current (I _{sc}) at STC	13.40 A	13.52 A	13.65 A	13.76 A
Module efficiency	20.2%	20.4%	20.7%	20.9%
Rated output (P _{mpp}) at NMOT	291.5 Wp	295.2 Wp	298.9 Wp	302.7 Wp
Rated voltage (V _{mpp}) at NMOT	28.66 V	28.82 V	28.98 V	29.13 V
Rated current (I _{mpp}) at NMOT	10.17 A	10.24 A	10.32 A	10.39 A
Open circuit voltage (V_{oc}) at NMOT	34.59 V	34.78 V	34.97 V	35.15 V
Short circuit current (I _{sc}) at NMOT	10.87 A	10.97 A	11.07 A	11.17 A
Temperature coefficient (P_{mpp})	- 0.35%/°C			
Temperature coefficient (I_{sc})	+ 0.045%/°C			
Temperature coefficient (V _{oo})		- 0.27	″%/°C	
Nominal module operating temperature (NMOT)	41±2°C			
Maximum system voltage (IEC/UL)	1500V _{DC}			
Number of diodes	3			
Junction box IP rating	IP 68			
Maximum series fuse rating	25 A			

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5 NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s Name plate tolerances: Pmax +/-3%, Voc +/-3%, Isc +/-5%

Mechanical Specifications

Outer dimensions (L x W x H)	1708 x 1133 x 35 mm
Frame technology	Aluminum, black anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape (standard): 1200 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
[®] Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 4 (UL)
Connector type (IEC/UL)	Stäubli MC4 EVO2 connectors (PV-KST4 EVO 2 & PV-KBT4 EVO 2)

[®] Refer to Energizer crystalline installation manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

Packing Specifications

[®] Module Weight	21.5 kg		
[®] Packing unit	36 pcs / box		
Weight of packing unit (for 40'HQ container)	813 kg		
Number of modules per 40'HQ container	936 pcs		

^① Tolerance +/- 1.0kg ^② Subject to sales contract

Energizer. SOLARPANELS

Energizer® Solar energizersolar.com

energizersolar.com hello@energizersolar.com

Manufactured in PRC

Australia

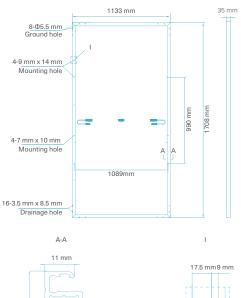
Level 35, 477 Collins St Melbourne, Victoria 3000 Australia +61 1300 757 827

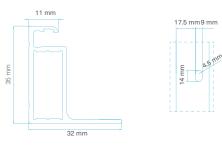
8 Star Energy ESS Ltd

Europe

The Black Church St. Mary's Place Dublin, D07 P4AX +353 1 254 8222

Module Dimensions





Curve

