

Energizer®

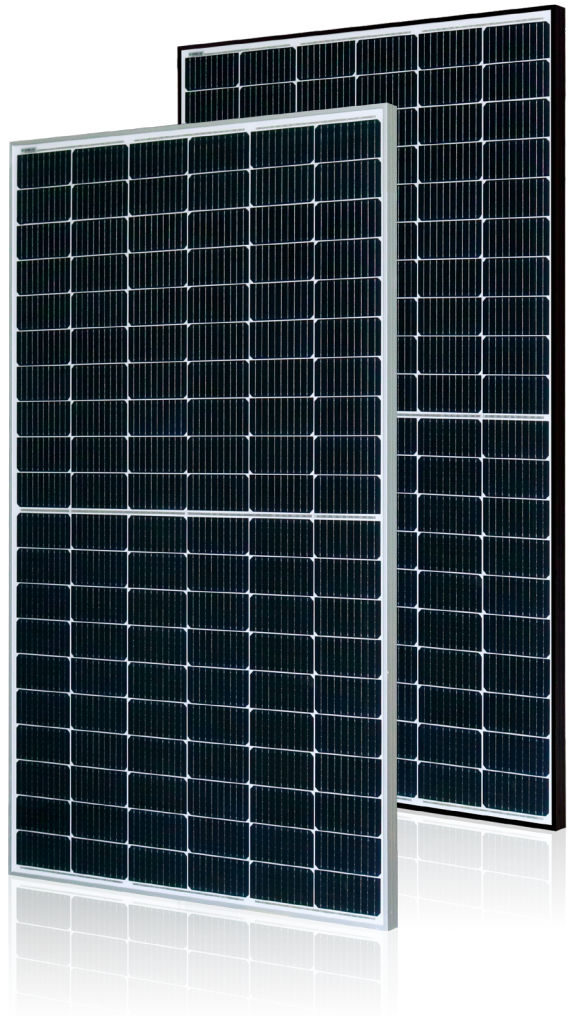
SOLAR PANELS

Beam

Silver / Black Frame (166mm)

370-380W

Mono PERC Half Cell Module
ENSP60M1 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.

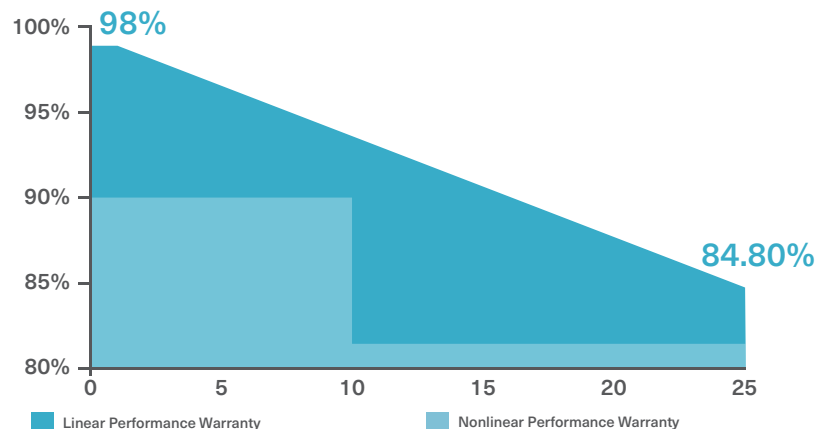
Warranty



Product warranty



Linear power output warranty
(1st year ≤ 2.0%, 2nd~25th years ≤ 0.55% / year)



Electrical Specifications

STC rated output (P_{mpp})	370 Wp	375 Wp	380 Wp
Rated voltage (V_{mpp}) at STC	33.98 V	34.28 V	34.51 V
Rated current (I_{mpp}) at STC	10.89 A	10.94 A	11.01 A
Open circuit voltage (V_{oc}) at STC	40.75 V	41.05 V	41.34 V
Short circuit current (I_{sc}) at STC	11.35 A	11.42 A	11.49 A
Module efficiency	20.3%	20.6%	20.9%
Rated output (P_{mpp}) at NMOT	275.9 Wp	279.6 Wp	283.4 Wp
Rated voltage (V_{mpp}) at NMOT	31.68 V	31.96 V	32.18 V
Rated current (I_{mpp}) at NMOT	8.71 A	8.75 A	8.81 A
Open circuit voltage (V_{oc}) at NMOT	38.31 V	38.59 V	38.87 V
Short circuit current (I_{sc}) at NMOT	9.13 A	9.19 A	9.24 A
Temperature coefficient (P_{mpp})		- 0.35%/°C	
Temperature coefficient (I_{sc})		+ 0.050%/°C	
Temperature coefficient (V_{oc})		- 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		20 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

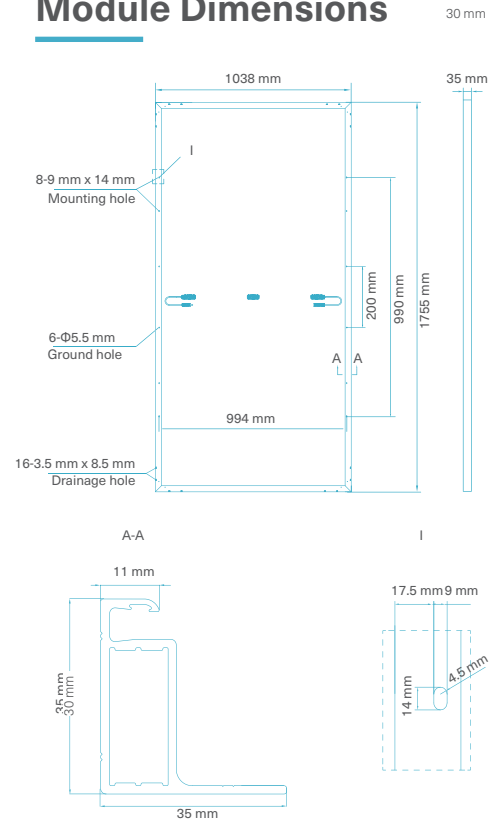
Outer dimensions (L x W x H)	1755 x 1038 x 30 mm
Frame technology	Aluminum, silver or black anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape (standard): 1200 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
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)

① Refer to Energizer crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

Packing Specifications

① Module Weight	19.5 kg
① Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	743 kg
Number of modules per 40'HQ container	936 pcs

Module Dimensions



Curve

