



Beam N DUAL GLASS Solar Panel

550-565W

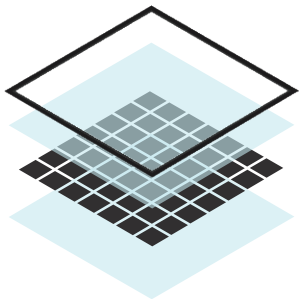
Bifacial - Black Frame (182mm)

N-Type Half Cell Module

ENSP72NBT2550SI ENSP72NBT2560SI
ENSP72NBT2555SI ENSP72NBT2565SI



Built using N-Type Dual Glass technology, the Energizer® Solar Panels range combine two of the best technologies in the market.



Dual Glass Construction

- Panel Frame
- Front Glass Panel
- Solar Cells
- Rear Glass Panel



Dual glass technology



Lower operating temperatures



Improved fire & water resistance



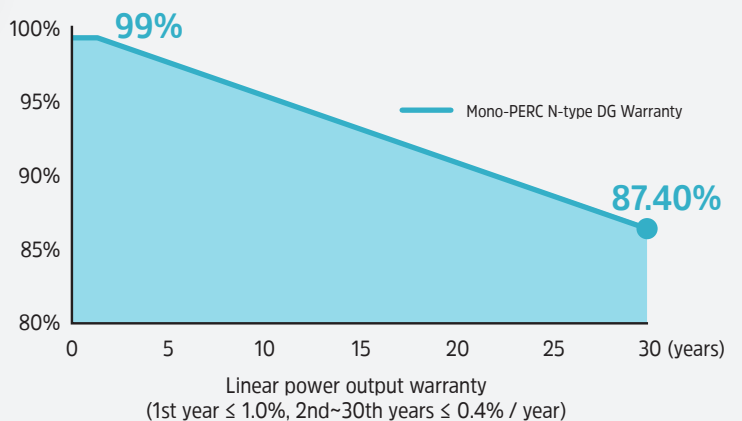
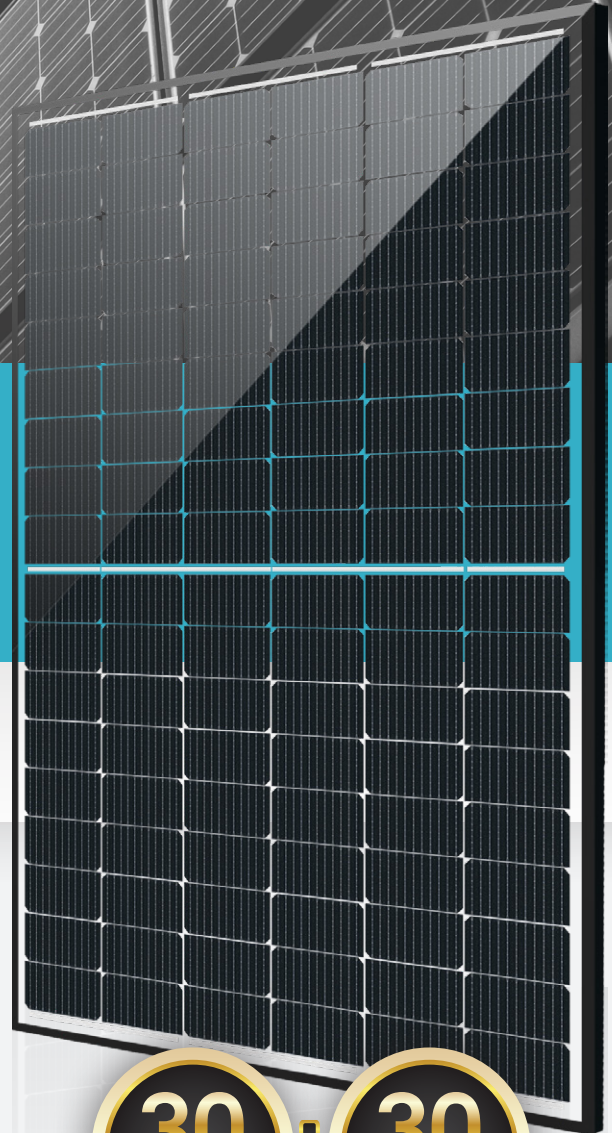
Improved durability with no extra weight



Quality controlled by artificial intelligence



Positive power tolerance of 0~+5W



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Electrical Specifications

STC rated output (P_{mpp})	550 Wp	555 Wp	560 Wp	565 Wp
Rated voltage (V_{mpp}) at STC	42.27 V	42.44 V	42.61 V	42.77 V
Rated current (I_{mpp}) at STC	13.01 A	13.08 A	13.14 A	13.21 A
Open circuit voltage (V_{oc}) at STC	50.30 V	50.50 V	50.70 V	50.90 V
Short circuit current (I_{sc}) at STC	13.72 A	13.81 A	13.89 A	13.98 A
Module efficiency	21.3%	21.5%	21.7%	21.9%
Rated output (P_{mpp}) at NMOT	413.6 Wp	417.4 Wp	421.1 Wp	424.9 Wp
Rated voltage (V_{mpp}) at NMOT	39.79 V	39.94 V	40.10 V	40.26 V
Rated current (I_{mpp}) at NMOT	10.40 A	10.45 A	10.50 A	10.55 A
Open circuit voltage (V_{oc}) at NMOT	47.78 V	47.97 V	48.16 V	48.35 V
Short circuit current (I_{sc}) at NMOT	11.08 A	11.15 A	11.22 A	11.29 A
Temperature coefficient (P_{mpp})	- 0.29%/°C			
Temperature coefficient (I_{sc})	+ 0.043%/°C			
Temperature coefficient (V_{oc})	- 0.25%/°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	30 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: P_{max} +/-3.5%, V_{oc} +/-3.5%, I_{sc} +/-5%

Electrical Specifications (Integrated power)

Pmpp Gain	Pmpp / Wp	Vmpp / V	I _{mp} / A	Voc / V	I _{sc} / A
5%	572	41.93	13.64	49.90	14.41
10%	600	41.93	14.31	49.90	15.09
15%	627	41.94	14.95	49.91	15.78
20%	654	41.94	15.59	49.91	16.46
25%	681	41.95	16.23	49.92	17.14

Other Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell type	N type Mono-crystalline
No. of cells	144
Frame technology	Black Aluminum frame, Translucent backing
Front glass thickness	2.0+2.0 mm
Cable length (IEC/UL)	Portrait: (+) 350mm, (-) 250mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	PV-HCB40 (Astronergy) or PV-KST4-EV02/xy-UR, PVKBT4-EV02/xy (Stäubli)
Module weight	32.1 kg
Packing unit	36 pcs / box
Weight of packing unit (40ft container)	1215 kg
Modules per 40ft container	720 pcs
Fire Class Rating	Class A
Country of Manufacturer	China

Curve

