



Beam 2 Solar Panel

390-400W

All Black (182mm)

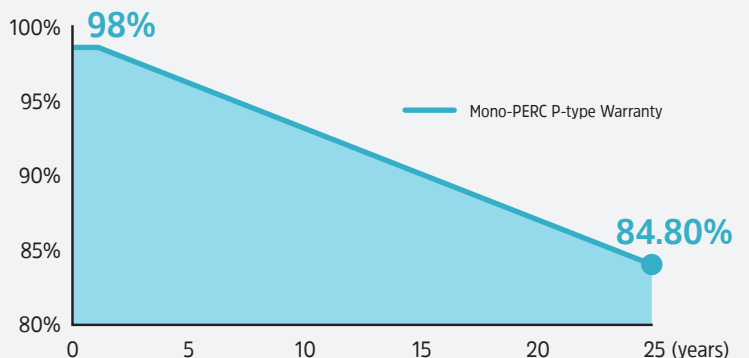
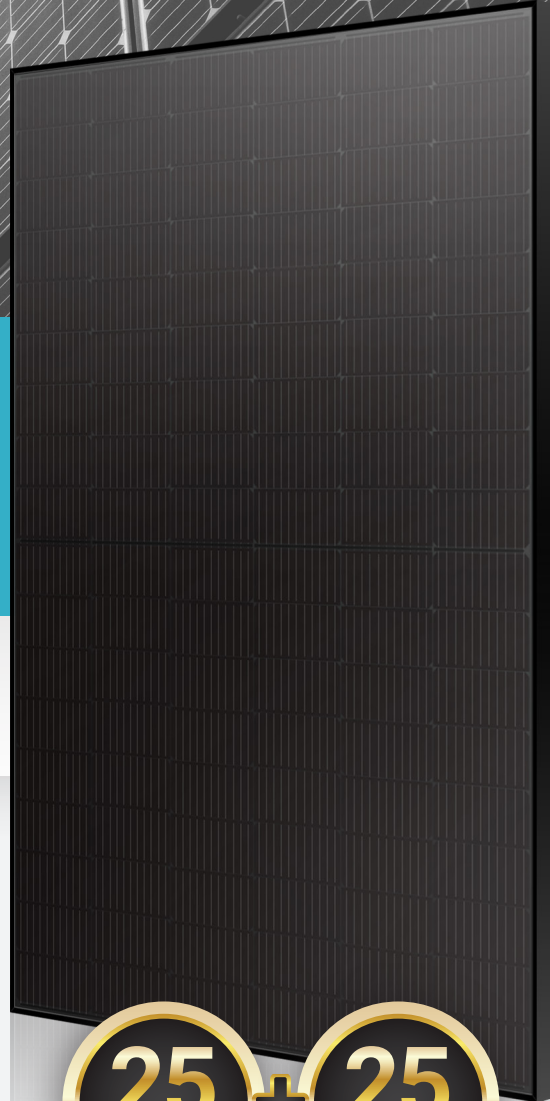
Mono PERC Half Cell Module

ENSP54MBL2390BF ENSP54MBL2400BF
ENSP54MBL2395BF



Built using Mono-crystalline PERC technology, the Energizer® Solar Panels range combine two of the best technologies in the market.

- 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.



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

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Electrical Specifications

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Rated output (Pmpp / Wp)	390	395	400
Rated voltage (Vmpp / V)	30.76	30.92	31.09
Rated current (Impp / A)	12.68	12.77	12.86
Open circuit voltage (Voc / V)	36.60	36.80	37.00
Short circuit voltage (Isc / A)	13.40	13.52	13.65
Module efficiency	20.0%	20.2%	20.5%

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	291.5	295.2	298.9
Rated voltage (Vmpp / V)	28.66	28.82	28.98
Rated current (Impp / A)	10.17	10.24	10.32
Open circuit voltage (Voc / V)	34.59	34.78	34.97
Short circuit current (Isc / A)	10.87	10.97	11.07

Power Sorting: +/-5W Measurement tolerance +/-3%

Temperature Rating (STC)

Temperature coefficient (Pmpp)	-0.35% / °C
Temperature coefficient (Isc)	-0.045% / °C
Temperature coefficient (Voc)	-0.27% / °C
Nominal module operating temperature (NMOT)	41±2°C

Operating Parameters

No. of diodes	3
Junction box IP rating	IP68
Max. series fuse rating	25A
Max. system voltage (IEC/UL)	1500V _{oc}

Other Specifications

Outer dimensions (L x W x H)	1722 x 1134 x 30mm
Cell type	P type Mono-crystalline
No. of cells	108
Frame technology	Black Aluminium
Front glass thickness	3.2mm
Cable length (IEC/UL)	Portrait: 300mm; Landscape: 1200mm
Cable diameter (IEC/UL)	4mm ² / 12 AWG
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4 Connector PV-KBT4-EVO2A/xy (Stäubli)
Module weight	21.6kg
Packing unit	36 pcs / box
Weight of packing unit (40ft container)	821kg
Modules per 40ft container	936 pcs
Fire Class Rating	Class C
Country of Manufacturer	China

Curve

