

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 21.8%.



Lower operating temperatures

Low operating temperatures and coefficients increases performance.



Half Cell technology

Excellent performance under real conditions.



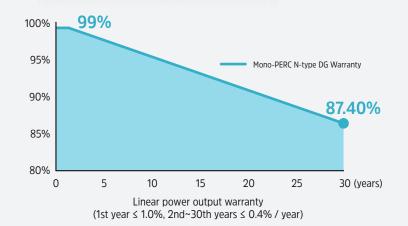
Keeps going and going

Engineered and designed to withstand harsh environments.



hello@energizersolar.com energizersolar.com







Electrical Specifications

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5 Rated output (Pmpp / Wp) 415 420 425 Rated voltage (Vmpp / V) 31.76 31.93 32.10 Rated current (Impp / A) 13.06 13.15 13.24 Open circuit voltage (Voc / V) 37.80 38.00 38.20 Short circuit voltage (Isc / A) 13.76 13.87 13.98 Module efficiency 21.3% 21.5% 21.8% NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s Rated output (Pmpp / Wp) 319.6 315.8 Rated voltage (Vmpp / V) 29.90 30.06 30.21 Rated current (Impp / A) 10.44 10.51 10.58 Open circuit voltage (Voc / V) 35.91 36.10 36.29

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

Short circuit current (Isc / A)

Tempertaure Rating (STC)

Temperature coefficient (Pmpp)	-0.30% / °C
Temperature coefficient (Isc)	-0.043% / °C
Temperature coefficient (Voc)	-0.24% / °C
Nominal module operating temperature (NMOT)	41±2°C

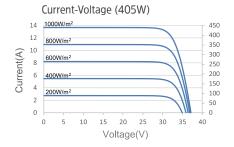
Operating Parameters

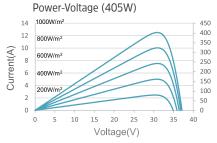
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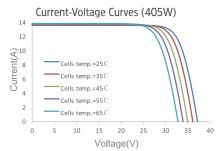
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No. of diodes	3
Junction box IP rating	IP68
Max. series fuse rating	25A
Max system voltage (IEC/LIL)	1000Vec 1500Vec

Curve







Other Specifications

Outer dimensions (L x W x H)	1722 x 1134 x 30mm
Cell type	N type Mono-crystalline
No. of cells	108
Frame technology	Aluminium (silver or black)
Front glass thickness	3.2mm
Cable length (IEC/UL)	Portrait: 350mm; Landscape: 250mm
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	21.3kg
Packing unit	36 pcs / box
Weight of packing unit (40ft container)	811kg
Modules per 40ft container	936 pcs
Fire Class Rating	Class C
Country of Manufacturer	China

