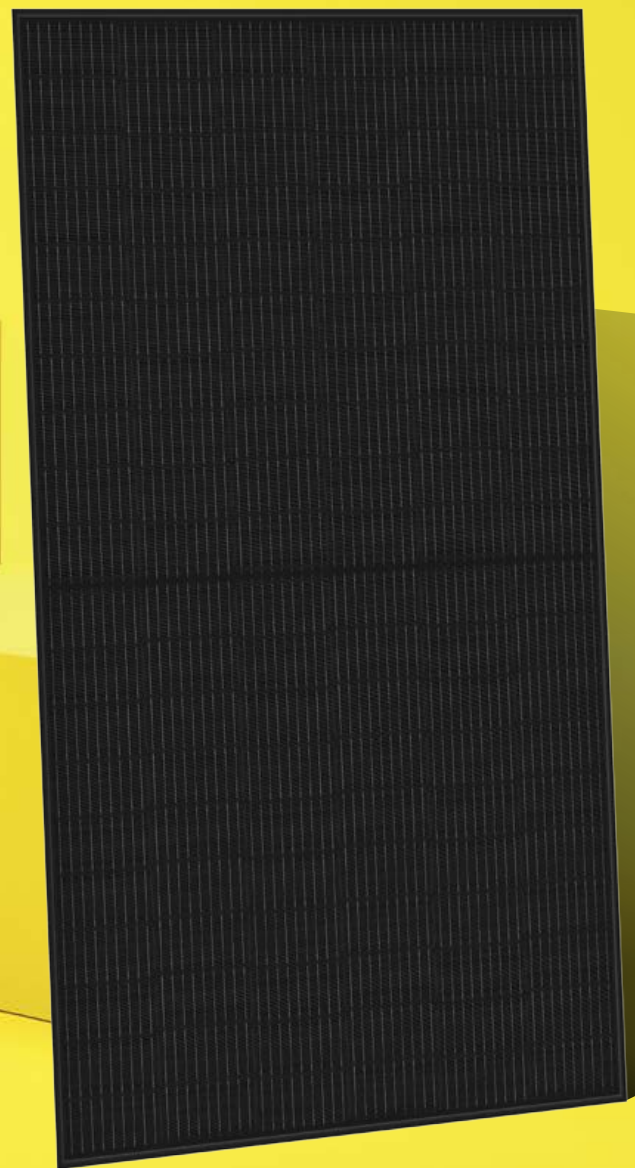




Technical manual

# ELERIX SOLAR PANEL

Solar panel Mono, PERC, Half Cut, Full Black  
450Wp



[www.elerix.com](http://www.elerix.com)

[PRODUCT WEBPAGE >](#)

EXS-450MHC-B







# ELERIX SOLAR PANEL

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450Wp



## ELERIX solar panel Mono, PERC, Half Cut 450Wp 144 cells

### Key Features

-  Excellent module efficiency up to: 20.90%
-  IP68 junction box for long-term weather endurance
-  Heavy snow load up to 5400 Pa, wind load up to 3600 Pa
-  PID: Selected material and stringent quality system ensure PID free
-  Applicable to harsh environment of deserts, farmlands and seashores
-  Much lower risk of Hot Spot

### Warranty

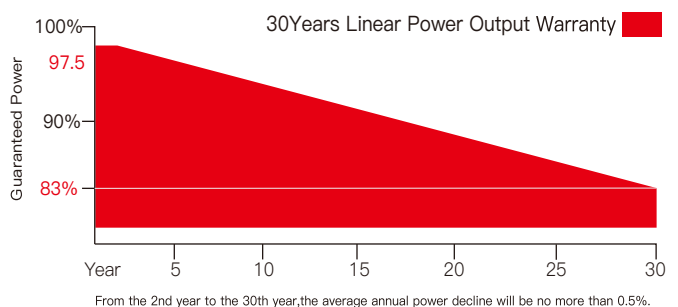
Linear power output warranty

30 years

- ▶ 12 years minimum 92% power output
- ▶ 30 years minimum 83% power output

12 years

Product warranty on materials and workmanship  
According to the applicable ELERIX Limited Warranty Statement



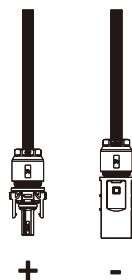
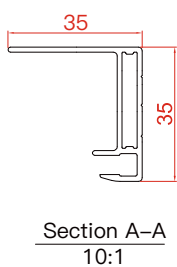
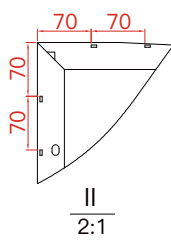
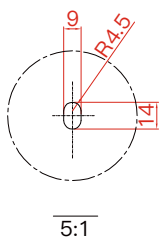
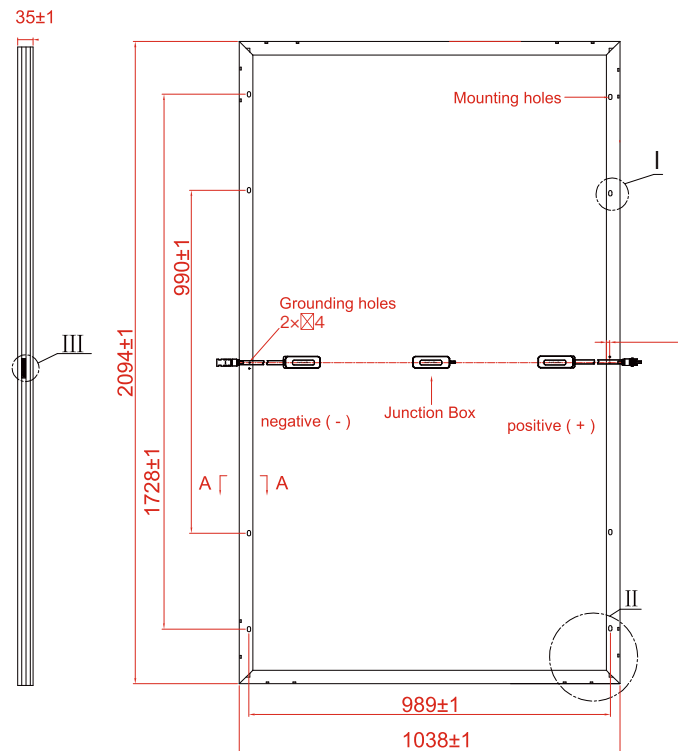
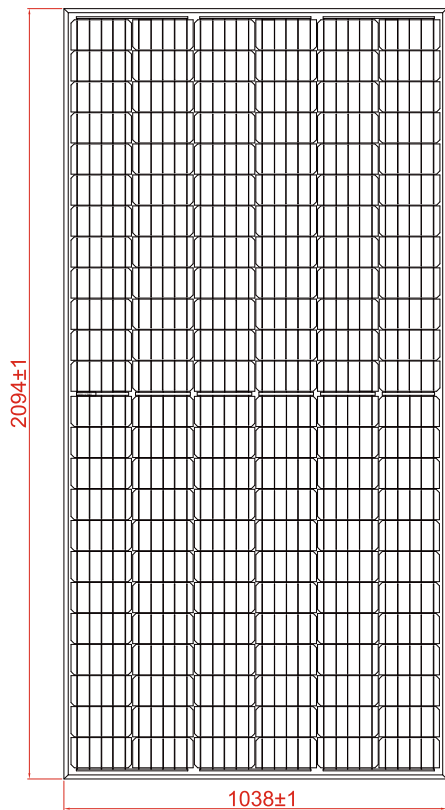
### Certification



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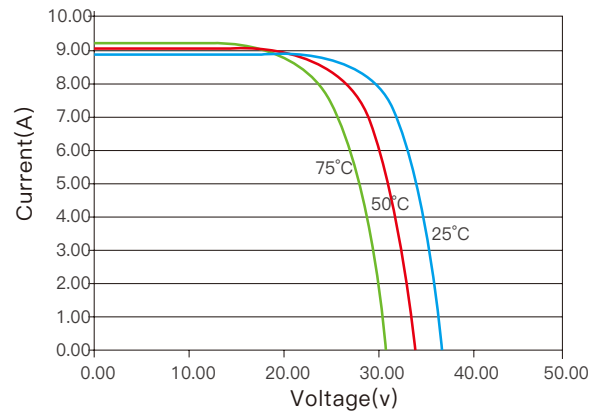
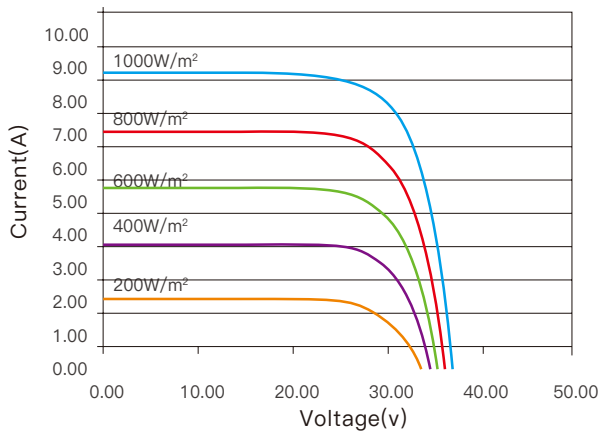


# ELERIX SOLAR PANEL



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450Wp

## IV Curve



Electrical Specification	EXS-450MHC-B
Maximum Power (Pmax)	450W
Module Efficiency	20.70%
Open Circuit Voltage (Voc)	49.30V
Short Circuit Current (Isc)	11.60A
Maximum Power Voltage (Vmp)	41.50V
Maximum Power Current (Imp)	10.84A
Maximum System Voltage	ICE 1500V (VDC)/UL 1500V (VDC)
Maximum Series Fuse Rating	20A

# ELERIX SOLAR PANEL



Solar panel Mono, PERC, Half Cut, Full Black  
450Wp

Electrical DATA@NOCT	EXS-450MHC-B
Pmax [W]	336.1
Vm [V]	38.60
Imp [A]	8.70
Voc [V]	46.20
Isc [A]	9.38

NOCT: Irradiance: 800W/m<sup>2</sup>, Ambient Temperature: 20°C, Air Mass: 1.5, Wind Speed: 1m/s

Mechanical Specification	
Solar Cell Type	Mono Crystalline 166x166mm
Number of Cells	144pcs (24x6)
Module Size	2094x1038x35mm
Weight	23.5kg
Glass	3.2mm tempered glass
Back Sheet	Full Black
Frame	Anodized aluminum alloy, silver or black
Junction Box	IP68
Quantity of Diodes	3pcs
Cable	4.0mm <sup>2</sup> 1100mm
Connector	MC4 Compatible
Wind/Snow Load	3600pa/5400pa

# ELERIX SOLAR PANEL



Solar panel Mono, PERC, Half Cut, Full Black  
450Wp

## Packaging Configuration

Modules per ox	30 pieces
Number per 20GP	275 pieces
Modules per 40' HQ	660 pieces

## Temperature Characteristic

NMOT (Nominal Module Operating Temperature)	41°C ( $\pm 3^{\circ}\text{C}$ )
Temperature Coefficient of $P_{\text{MAX}}$	- 0.36%/°C
Temperature Coefficient of $U_{\text{oc}}$	- 0.26%/°C
Temperature Coefficient of $I_{\text{sc}}$	0.04%/°C

## Maximum Ratings

Operational Temperature	-40 to +85°C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	20A
Snow Load	54000Pa (3600Pa)
Wind Load	3600Pa (1600Pa)

\*design load with safety factor 1.5 (DO NOT connect Fuse in Combiner Box with two or more strings in parallen connection)

Are you interested in more details?  
Visit our online presentation.

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