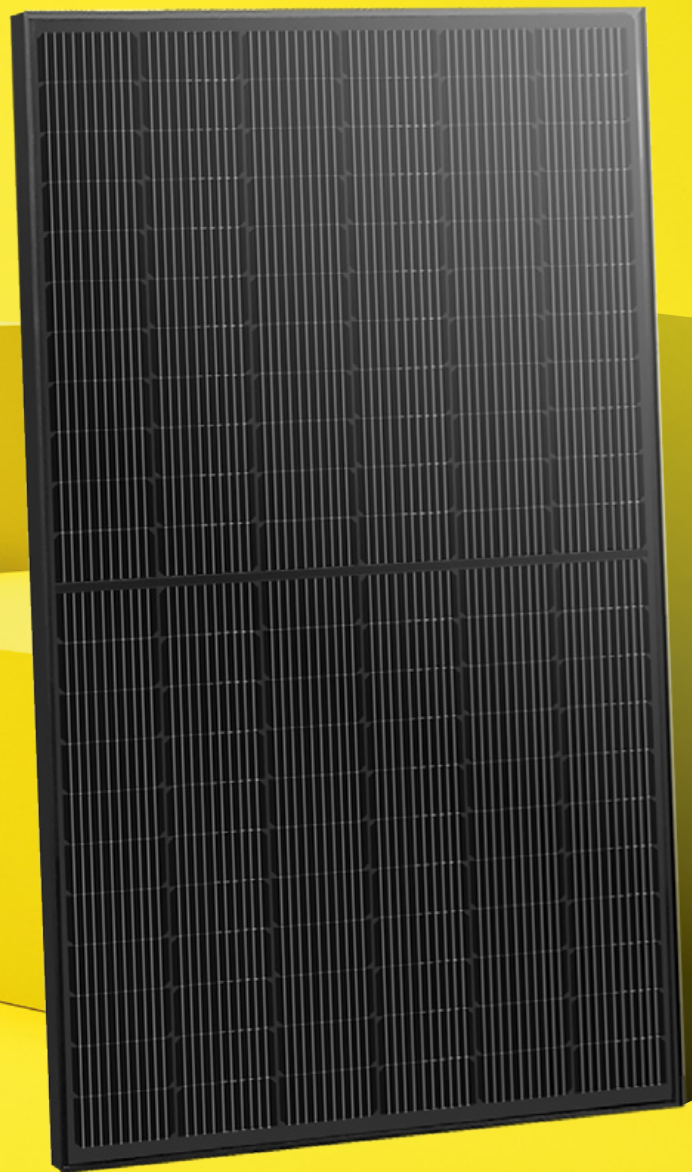




Technical manual

# ELERIX SOLAR PANEL

Mono Half Cut Crystalline Solar Module  
500Wp Black



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

[PRODUCT WEBPAGE >](#)

EXS-500MHC-BL







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## ELERIX Mono Half Cut Crystalline Solar Module 500Wp


### Key Features

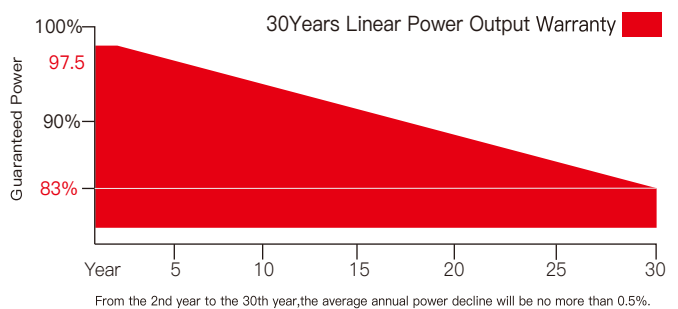
-  Excellent module efficiency 21.30%
-  IP68 junction box for long-term weather endurance
-  Heavy snow load up to 5400 Pa, wind load up to 3600 Pa
-  PID: Selected material and stringent quality system ensure PID free
-  Applicable to harsh environment of deserts, farmlands and seashores
-  Much lower 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

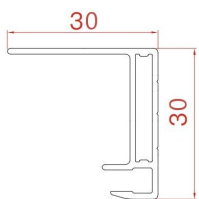
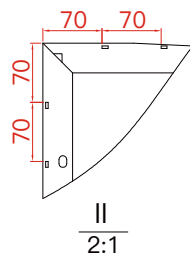
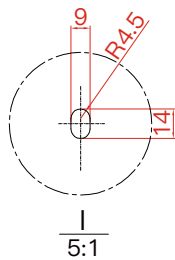
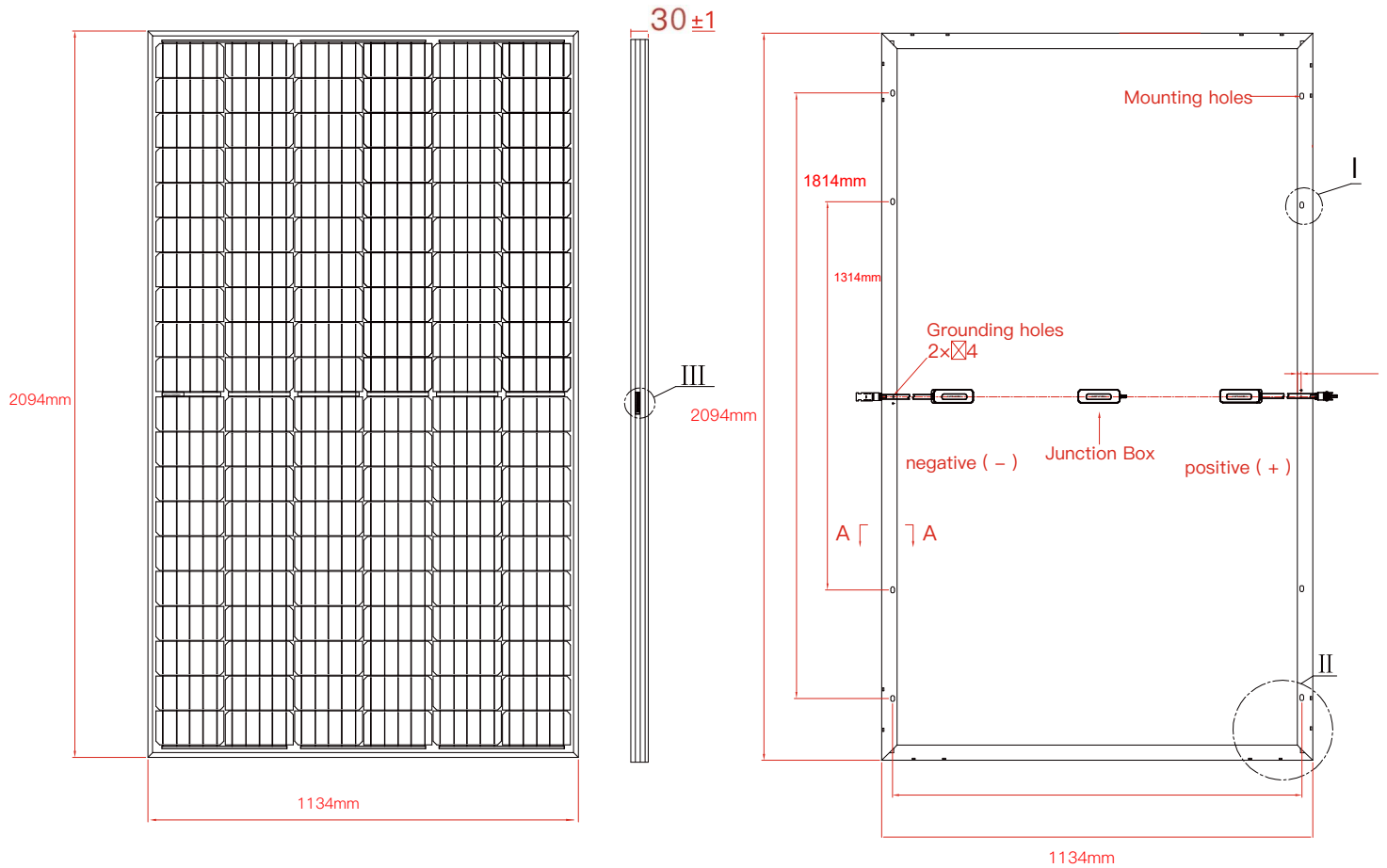


### Certification

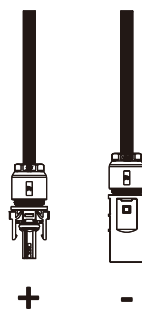


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Section A-A  
10:1

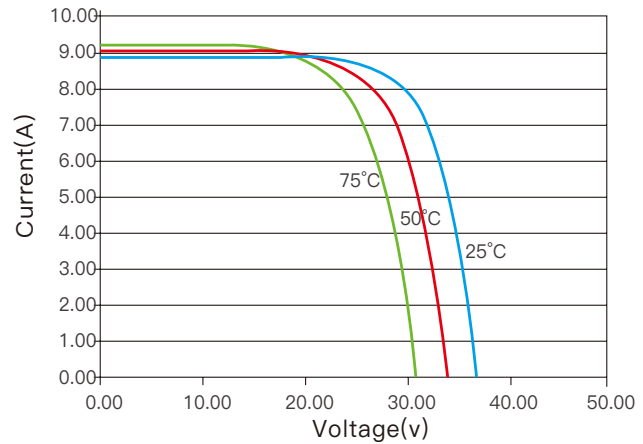
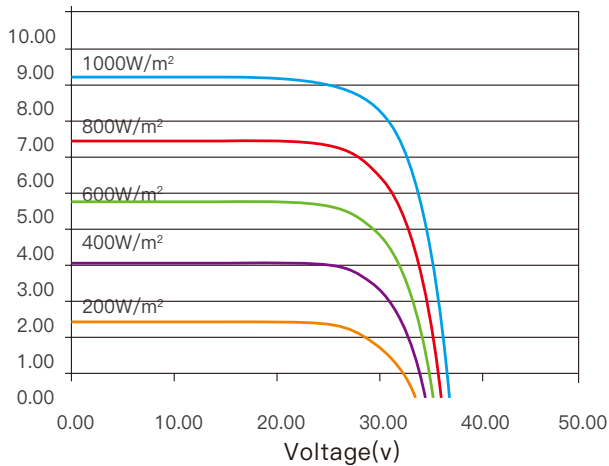


# ELERIX SOLAR PANEL



Mono Half Cut Crystalline Solar Module  
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I-V CURVES OF PV MODULE(395 W)



Electrical Specification	EXS-500MHC-BL
Maximum Power (Pmax)	500W
Module Efficiency	21.30%
Open Circuit Voltage (Voc)	45.55V
Short Circuit Current (Isc)	13.90A
Maximum Power Voltage (Vmp)	38.38V
Maximum Power Current (Imp)	13.03A
Maximum System Voltage	ICE 1500 VDC

STC: Irradiance: 100W/m<sup>2</sup>, Module Temperature: 25°C, Air Mass: 1.5

# ELERIX SOLAR PANEL



Mono Half Cut Crystalline Solar Module  
500Wp Black

Electrical DATA@NOCT	EXS-500MHC-BL
Pmax [W]	500
Vm [V]	35.93
Imp [A]	10.52
Voc [V]	42.72
Isc [A]	11.27

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

Mechanical Specification	
Solar Cell Type	Monocrystalline 182"
Number of Cells	132pcs
Module Size	2094*1134*30mm
Weight	25.1kg
Glass	3.2mm tempered glass
Back Sheet	Black
Frame	Anodized aluminium alloy, silver or black
Junction Box	IP68,three diodes
Quantity of Diodes	3pcs
Cable	4.0mm <sup>2</sup> 1000mm
Connector	MC4 Compatible
Wind/Snow Load	2400pa/5400pa

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500Wp Black



## Packaging Configuration

Modules per box	36 pieces
Number per 20GP	216 pieces
Modules per 40' HQ	720 pieces

## Temperature Characteristic

NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of P <sub>MAX</sub>	- 0.36%/°C
Temperature Coefficient of U <sub>OC</sub>	- 0.26%/°C
Temperature Coefficient of I <sub>SC</sub>	0.04%/°C

## Maximum Ratings

Operational Temperature	-40 to +85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A
Protection Class	Class II
Snow Load	5400 Pa
Wind Load	2400 Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

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

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