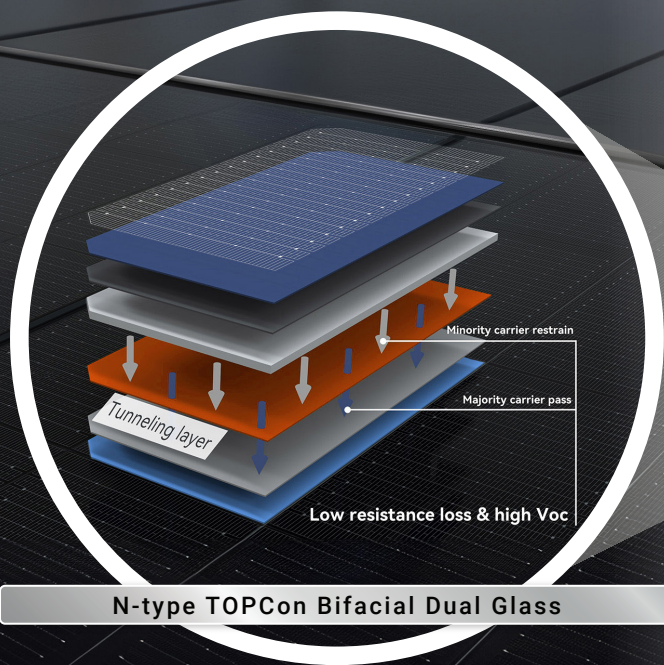


Evolution MAX 500W

EVO-500DH8N-120 Series

Monocrystalline Module



N-type TOPCon Bifacial Dual Glass

 **25.79%**

MAX MODULE EFFICIENCY
AFTER INSTALLED

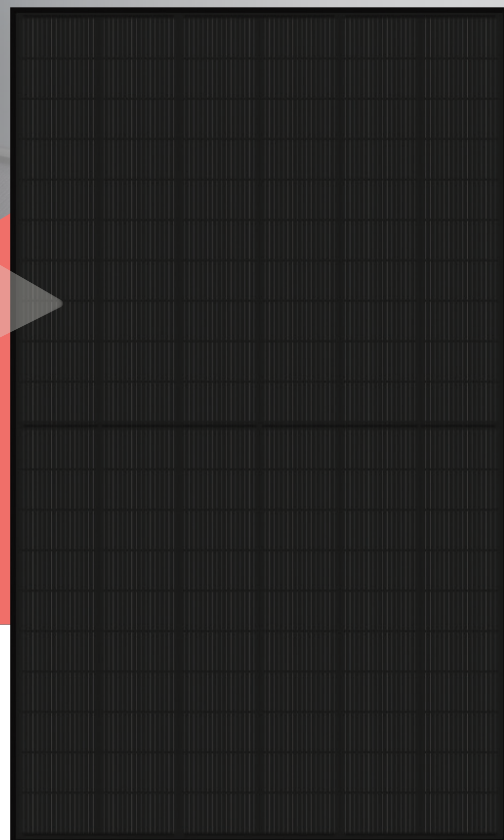
 **99**

YEARS LIMITED
PRODUCT WARRANTY

 **230%**

LONGER PERFORMANCE
WARRANTY*

*Our panels performance warranty is 230% longer than our competitors, the market average warranty is 30 years.



Key Benefits



High Power Output

- Better light trapping and current collection to improve module power output and reliability.
- Bifacial performance, 25% max module efficiency according to BSTC, bifaciality 80±5%.



Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days.



Low LID (Light Induced Degradation)

- Low LID naturally which can increase power generation.



Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology.



PID Resistance (Potential-Induced Degradation)

- Excellent Anti-PID performance guarantee via optimised mass-production process and materials control.



Enhanced Mechanical Load

- Mechanical performance up to 5400 Pa positive load and 4000 Pa negative load.



Sustainable Product

- High percentage of recyclable materials.



Unit 1, Lakes Court, Newborough Road, Needwood, Burton on Trent, Staffordshire, DE13 9PD
www.projectsolaruk.com • 0800 112 3110

Evolution MAX 500W

EVO-500DH8N-120 Series

Monocrystalline Module



Electrical Properties (STC)

Power Output (Wp)	500
Voltage Mpp-Vmpp (V)	37.14
Current Mpp-Impp (A)	13.48
Voltage Open Circuit-Voc (V)	44.22
Short Circuit Current-Isc (A)	13.94
Module Efficiency (%)	23.10%

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

Electrical Properties (NOCT)

Power Output (Wp)	378.5
Voltage Mpp-Vmpp (V)	35.77
Current Mpp-Impp (A)	10.59
Voltage Open Circuit-Voc (V)	42.04
Short Circuit Current-Isc (A)	10.97

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Electrical Properties (BSTC)

Power Output (Wp)	552.2
Voltage Mpp-Vmpp (V)	37.14
Current Mpp-Impp (A)	14.87
Voltage Open Circuit-Voc (V)	44.22
Short Circuit Current-Isc (A)	15.38
Module Efficiency (%)	25.52%

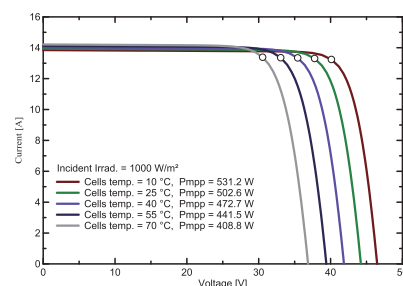
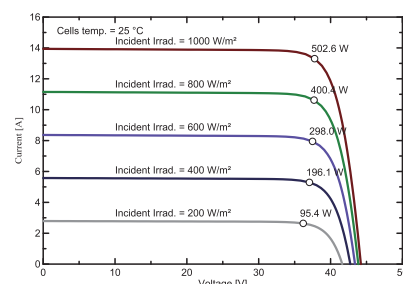
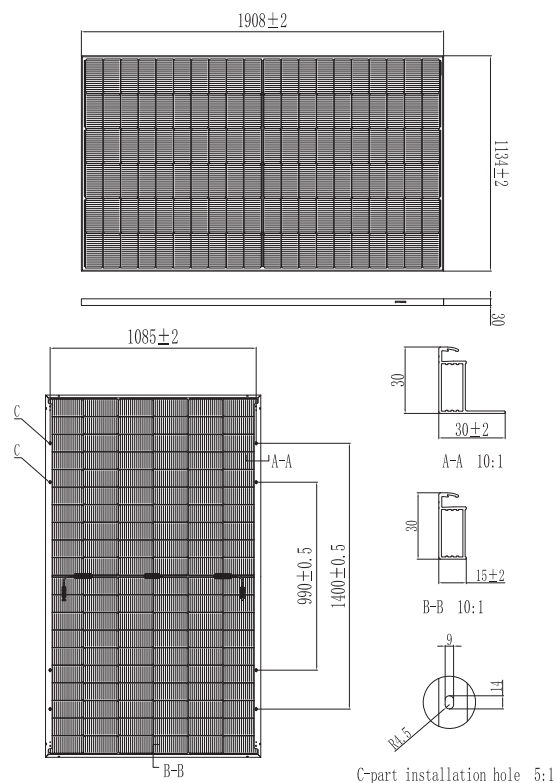
BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Mechanical Properties

Cells	N Type Monocrystalline Cell
Number Of Cells	120 [2× (10×6)]
Module Dimension	1908×1134×30mm(L×W×H)
Weight	27.2Kg±3%
Front Glass	2.0mm High Transmittance, AR Tempered Glass
Rear Glass	Black Grid 2.0mm Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 68 (3 Diodes)
Cabel Length	TUV 1×4.0 mm ² , (+):1200mm/(-): 1200mm or Customised Length
Connector	Stäubli MC4 EVO 2A

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	±5%
Bifaciality	80±5%



Packaging Configuration

Packing Type	40'HQ
Piece / Pallet	36
Piece / Container	864

Temperature Coefficient

Temperature Coefficient Of Pmax	-0.30%/°C
Temperature Coefficient Of Voc	-0.25%/°C
Temperature Coefficient Of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C