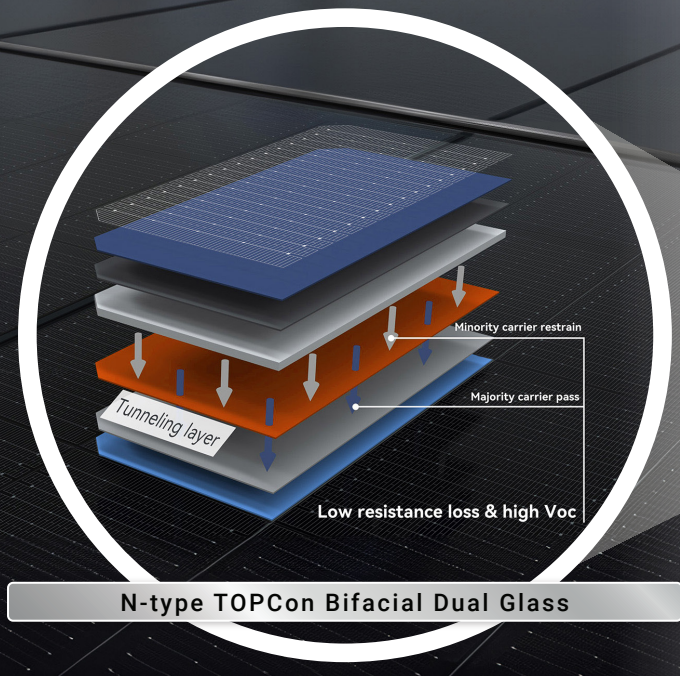
Evolution MAX 500W

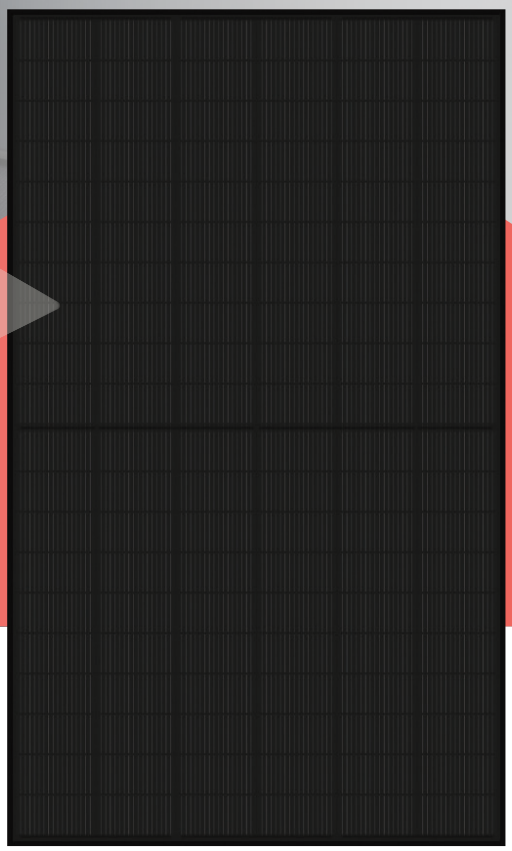
EVO-500DH8N-120 Series

Monocrystalline Module

Project Solar UK



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.

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

*V1.2. Information correct as of 05/25 - contents can be subject to change without prior notice.

Evolution MAX 500W

EVO-500DH8N-120 Series

Monocrystalline Module

Project Solar UK

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)

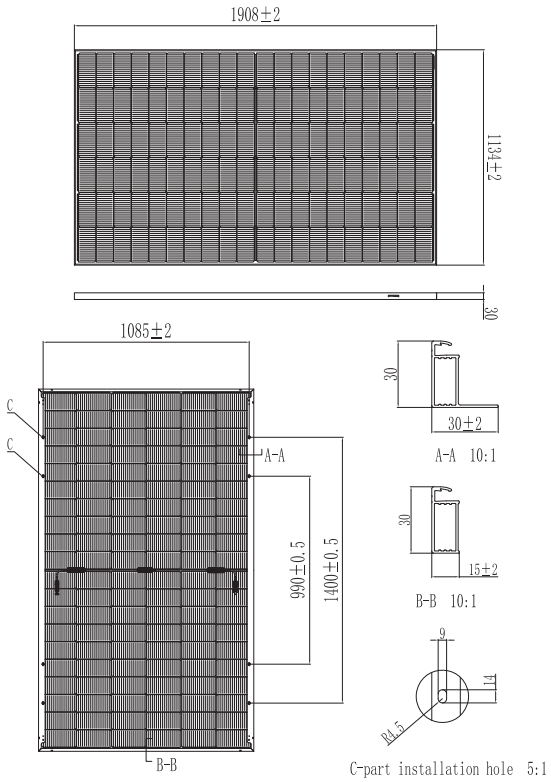
Power Output (Wp)	378.5
Voltage Mpp-Vmpp (V)	35.77
Current Mpp-Impp (A)	10.59
Voltage Open Circuit-Voc (V)	42.04
Short Circuit Current-Isc (A)	10.97

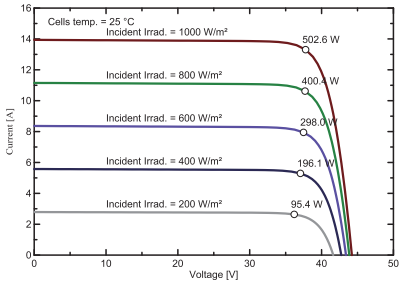
NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

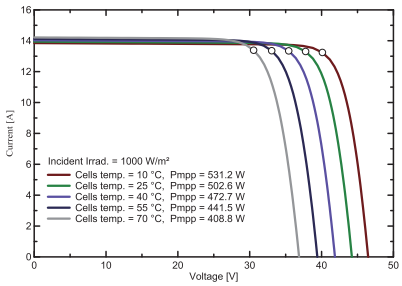
Electrical Properties (BSTC)

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 mm², (+):1200mm/(-): 1200mm or Customised Length
Connector	Stäubli MC4 EVO 2A

Packaging Configuration

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

Operating Properties

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

Temperature Coefficient

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

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