

## Electrical Characteristics (STC)

	Front STC	Front BNPI	Back STC
Maximum Power -P <sub>mp</sub> (W)	440	488	352
Open Circuit Voltage -V <sub>oc</sub> (V)	35.38	35.46	35.36
Short Circuit Current -I <sub>sc</sub> (A)	15.80	17.51	12.64
Maximum Power Voltage -V <sub>mp</sub> (V)	29.41	29.49	29.39
Maximum Power Current -I <sub>mp</sub> (A)	14.97	16.53	11.98
Module Efficiency STC	22.02%		
Power Tolerance(W)	-5W~+5W		
P <sub>max</sub> Temperature Coefficient	-0.29 %/°C		
V <sub>oc</sub> Temperature Coefficient	-0.25 %/°C		
I <sub>sc</sub> Temperature Coefficient	+0.046 %/°C		

Rear Side Power Gain	10%	15%	20%	25%
Maximum Power -P <sub>mp</sub> (W)	495	518	540	563
Open Circuit Voltage -V <sub>oc</sub> (V)	35.78	35.78	35.78	35.78
Short Circuit Current -I <sub>sc</sub> (A)	17.49	18.29	19.08	19.88
Maximum Power Voltage -V <sub>mp</sub> (V)	29.81	29.81	29.81	29.81
Maximum Power Current -I <sub>mp</sub> (A)	16.61	17.37	18.12	18.88
Maximum System Voltage	1500V DC			
Maximum Series Fuse Rating	30 A			
Operating Temperature	-40~+85 °C			
Nominal Operating Cell Temperature	45±2 °C			
Bifaciality	80%±5%			
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa			

STC : irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4% BNPI: front 1000W/m<sup>2</sup> rear 135W/m<sup>2</sup> Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-3% Bifaciality coefficient Voc±5% 0.99 Isc±10% 0.8 P<sub>max</sub>±10% 0.8

## Components Specifications

Solar Cells	TOPCon 182 x 105mm (96pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length
Connector	Genuine MC4 EVO2/Zerun Z4S-abcde/QC Solar QC4.10-cds
Fire Safety Class	Class A
Safety Class Protection	Class II

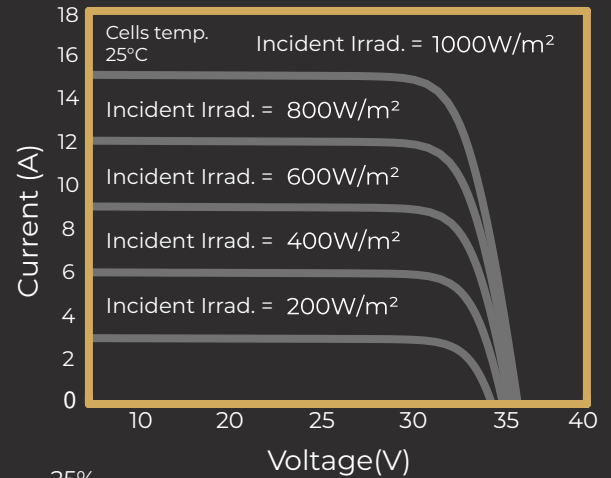
## Mechanical Data

Panel dimensions (mm)	1762 x 1134 x 30
Panel weight (Kg)	24.9

## Warranty

Product	30 Year
Performance	30 Year

Current – Voltage characteristics at various irradiance levels



Compliance with C E standards





**MAXIMUS**  
MPS-440NBBK

The Solar Panel  
Without Equal

"Look how much  
Max Power Solar  
Panels are saving  
us on our bills"

2025  
EDITION

Solar meets  
sophistication



SCAN ME!

The Australian Solar Brand  
For Tough Australian Conditions

[maxpowersolar.com.au](http://maxpowersolar.com.au)



## The Panel Without Equal

The MPS-440NBBK solar module is a high-tech, high quality panels produces by Max Power Solar, which is part of a well established Australian business in the solar industry since 2008.

The powerful panel is built extra tough to thrive in harsh Aussie conditions. It features strengthened glass sheets on the front and back for extra strength and higher efficiency.

In low light conditions the superior N-Type cells in the module out produce the standard P-Type cells in other panels. This panel delivers increased power and more savings to you every day and is backed with industry best Australian warranties.

The stylish all black discreet design makes the panel aesthetically pleasing and expertly crafted to complement contemporary Australian home design.

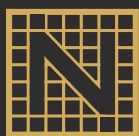
Manufactured in a state-of-the-art Tier 1 facility using the latest technology and quality assured processes. Your Max Power Solar panels will serve you seamlessly and dependably for their full warranted performance period and beyond.

**MAXIMUS**  
MPS-440NBBK

**All black,  
elegant design  
and aesthetically  
outstanding**



**Massive 440W  
Power**



**Advanced  
N-Type Cells**



**Double Glass  
Bifacial Technology**



**Impressive  
Efficiency**



**Hail & Corrosion  
Resistant**



**Aesthetically  
Pleasing**



**Australian  
Owned**



**30-Yr Aussie  
Warranty**



**Surprisingly  
Affordable**



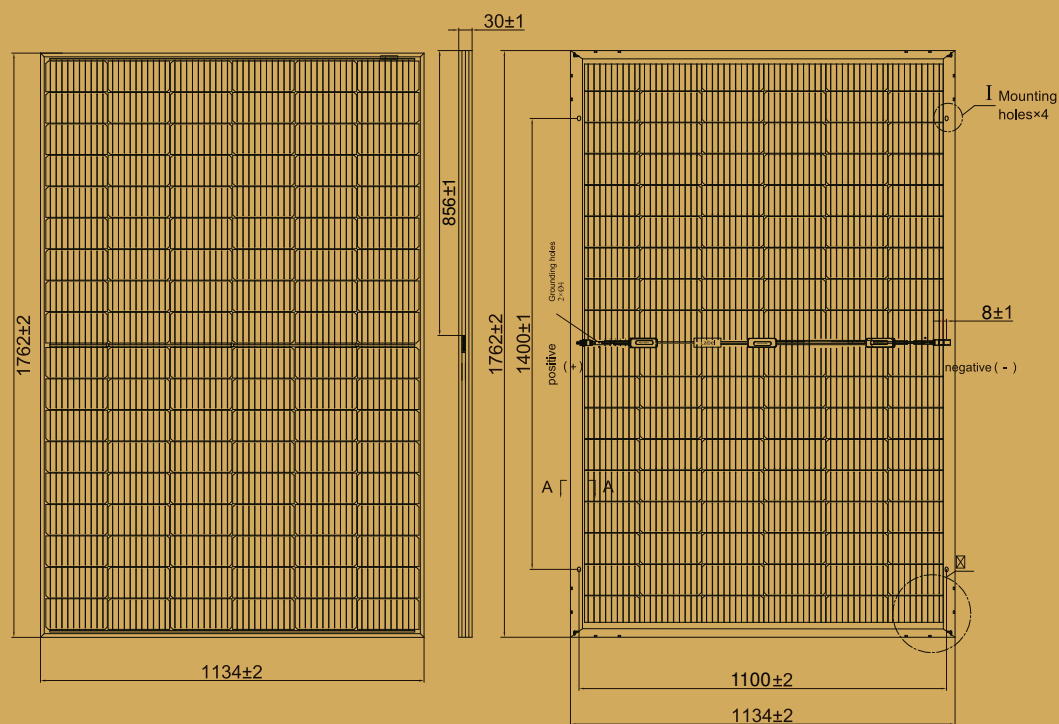
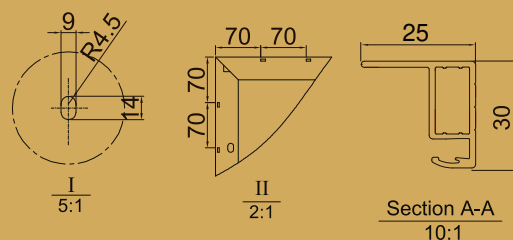


# KEY FEATURES

- Powerful 440W panel with N-Type cell technology
- Great appearance with all black finish for an aesthetically pleasing visual
- Built to last with double glass bifacial technology instead of plastic back sheet
- Outstanding life performance with minimum power degradation
- Impressive 22.02% module efficiency with small footprint
- Aussie owned with industry best local warranties

## DIMENSIONS

MPS-440NBBK



30-YEAR PRODUCT  
AND LINEAR  
PERFORMANCE  
WARRANTY

