



MAXIMUS
MPS-440NBK

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



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**



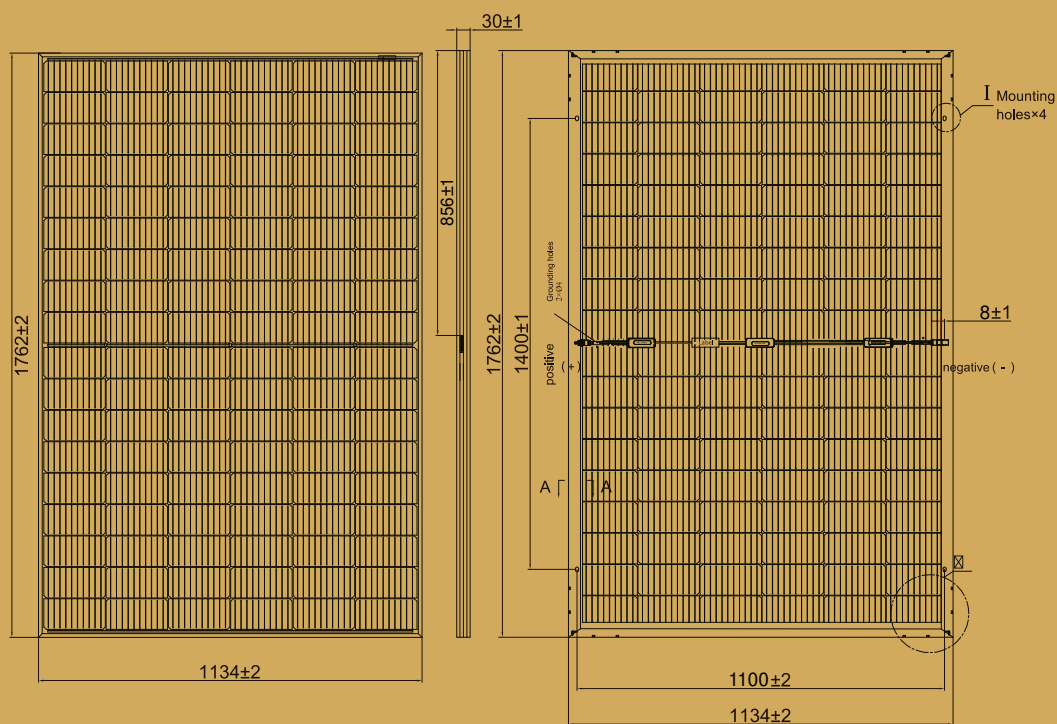
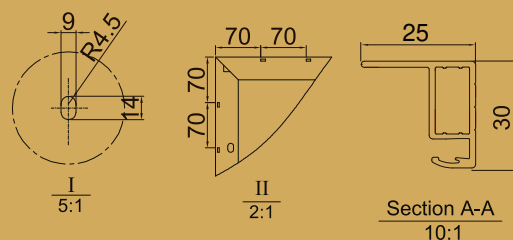
**Surprisingly
Affordable**

KEY FEATURES

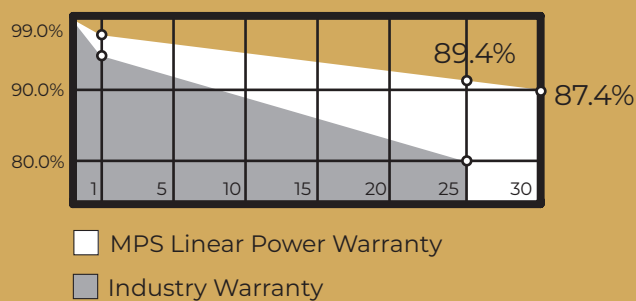
- Powerful 440W panel with N-Type cell technology
- Great appearance with all black finish for an aesthetically pleasing visual
- Built to last with double glass bifacial technology instead of plastic back sheet
- Outstanding life performance with minimum power degradation
- Impressive 22.02% module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

DIMENSIONS

MPS-440NBBK



30-YEAR PRODUCT
AND LINEAR
PERFORMANCE
WARRANTY



Electrical Characteristics (STC)

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

Rear Side Power Gain	10%	15%	20%	25%
Maximum Power -P _{mp} (W)	495	518	540	563
Open Circuit Voltage -V _{oc} (V)	35.78	35.78	35.78	35.78
Short Circuit Current -I _{sc} (A)	17.49	18.29	19.08	19.88
Maximum Power Voltage -V _{mp} (V)	29.81	29.81	29.81	29.81
Maximum Power Current -I _{mp} (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/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4% BNPI: front 1000W/m² rear 135W/m² Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-3% Bifaciality coefficient Voc±5% 0.99 Isc±10% 0.8 P_{max}±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 ² , 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

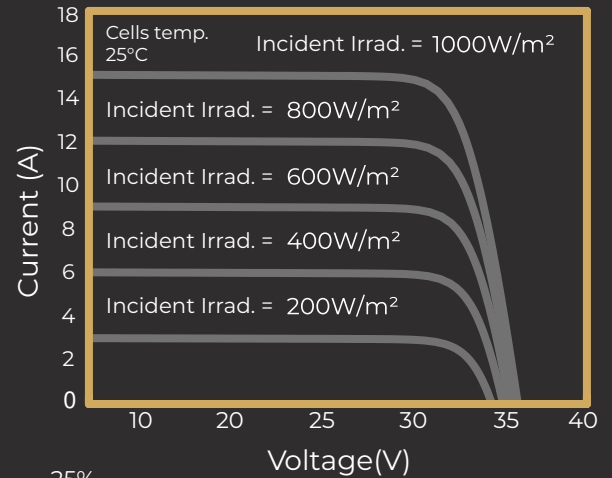
Mechanical Data

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

