

KEY FEATURES & BENEFITS

- **High Efficiency**

Achieving industry-leading module efficiency of up to 23.0%, PowerBay's advanced design ensures maximum energy generation from every panel.

- **High Reliability**

Backed by a 25-year materials warranty and a 30-year power output warranty, PowerBay's panels are built for long-term performance and durability. With excellent rear-side power generation, they deliver consistent and superior energy yields over their lifetime.

- **Excellent Rear Side Power Generation**

Bifacial Solar Panels deliver up to 30% higher energy yield compared to conventional solar panels.

- **Enhanced Low-light Performance**

Delivers higher power output even under low-irradiance conditions such as cloudy or foggy days, ensuring superior energy generation in diverse weather environments.

- **Designed for all Australian Conditions**

Engineered to withstand Australia's harsh climate – from intense UV exposure and coastal humidity to extreme heat and strong winds – ensuring reliable, long-lasting performance year-round.

- **Versatile Installation**

PowerBay's Midnight Panels are designed for seamless installation across residential homes, commercial buildings, and large-scale solar farms – delivering exceptional performance and a sleek, aesthetically pleasing appearance wherever they are installed.

ALL BLACK MIDNIGHT PRO

PB-DH96NE-440: N TYPE BIFACIAL DOUBLE GLASS 440W SOLAR PANEL

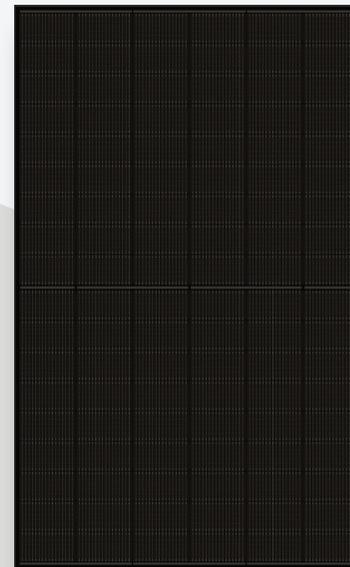
Experience next-generation efficiency with Powerbay's N-Type TOPCon bifacial solar panels – engineered to absorb sunlight from both sides for superior energy production and long-term performance.

Unlike traditional roof solar panels, which only capture sunlight from the front, bifacial panels can also absorb reflected light from the surfaces like roofs, concrete or the ground, improving the efficiency and ROI.

Bifacial panels typically use glass on both sides, offering greater strength, UV resistance, and better protection against moisture, corrosion, and environmental stress. This contributes to longer lifespans and reduced degradation rates over time.



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Powerbay Solar System Products

See it. Design it. Buy it.

One Business,
One Team,
One Warranty

Australia Wide



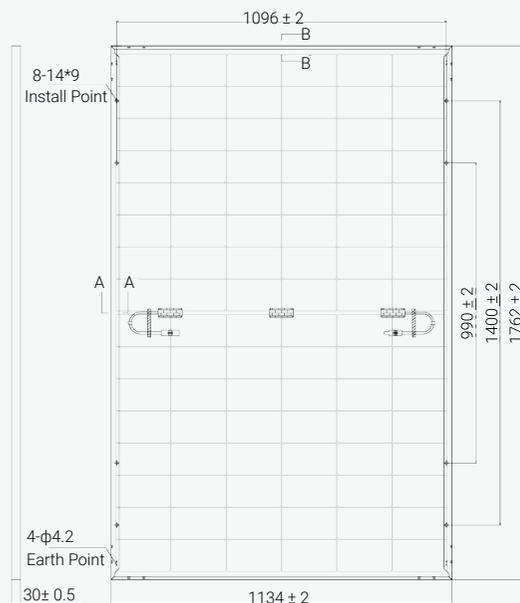
Available at
SUNNINGS
warehouse



TECHNICAL SPECIFICATIONS

Panel Size (mm)	1762 x 1134 x 30
Panel Weight (kg)	21.6
Max. System Voltage	DC1500V
Packing (Pallet)	37pcs
Cell Type	N Type
Nominal Max. Power(Pmax/W)	440
Open Circuit Voltage(Voc/V)	34.92
Short Circuit Current(Isc/A)	15.94
Operating Voltage(Vmp/V)	29.65
Operating Current(Imp/A)	14.84

Engineering Drawing (mm)



SYSTEM SIZE & PICKING LIST

SINGLE PHASE SYSTEM			
System Size	6.6kW	10.56kW	13.2kW
Panel Qty	15pcs	24pcs	30pcs
Item Number	0958262		
Inverter	ASW5000-S-G2	ASW10000-S-A	ASW10000-S-A
Item Number	0958264	0958274	0958274
Tin Roof Kit	2kits	3kits	4kits
Item Number	0959942		
Tile Roof Kit	2kits	3kits	4kits
Item Number	0959941		
Rail	8pcs	12pcs	15pcs
Item Number	0959940		

THREE PHASE SYSTEM			
System Size	10.56kW	13.2kW	19.8kW
Panel Qty	24pcs	30pcs	45pcs
Item Number	0958262		
Inverter	ASW10K-LT-G2-A	ASW10K-LT-G2-A	ASW15K-LT-G2-A
Item Number	0958273	0958273	0958261
Tin Roof Kit	3kits	4kits	6kits
Item Number	0959942		
Tile Roof Kit	3kits	4kits	6kits
Item Number	0959941		
Rail	12pcs	15pcs	23pcs
Item Number	0959940		

Disclaimer: The material picking list is provided for reference only. Actual materials and quantities may vary based on site conditions, installation requirements, and system design.

Transparent Pricing. Local Availability. Reliable System.

Powerbay is Bunnings' certified solar supplier, offering Panels, Inverters, Batteries and Mounting systems.



Leading product & power warranty

Less than 1% 1st-year Degradation, and 0.40% Annual Degradation. Panels come with a 30 year life expectancy of solar production, 25 Year Materials & workmanship warranty and 30 Year Power Output Warranty.

Powerbay's solar panels are approved by the Clean Energy Council (CEC) and eligible for STCs (Small-scale Technology Certificates).

Contact Us: ☎ 1800 95 95 09