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MONIER SOLAR ROOFING
POWERED BY BRADFORD ENERGY



THE POWER
OF A GREAT
LOOKING ROOF

CSR





THE POWER OF MONIER SOLAR ROOFING

The nation's largest and longest-established roofing company now makes it easier for Australia's homeowners to join the solar age.

Monier Solar Roofing combines the power of 100 years roofing experience with the high-tech solar expertise of Bradford Energy.

It's the easy, one-stop way to buy and install market-leading solar roofing technology – one of the most significant advances ever seen in the Australian market.

This brochure will inform you about how Solar Roofing works, the incredible benefits it can bring to your lifestyle and the packages on offer through Monier. Solar roofing services are available when re-roofing and building your new dream home.

There has never been a better time to go solar, with the power of a great looking roof.

Monier Solar Roofing powered by Bradford Energy.

**For more information call 1800 666 437
or go to monier.com.au**

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BENEFITS OF SOLAR WITH MONIER ROOFING



Australia has more solar radiation energy available per square metre than anywhere in the world.

From adding beauty and value to your property to lowering energy bills, cutting pollution and bringing you more independence from the grid, Monier Solar Roofing, powered by Bradford Energy, gives back to you in ways that other power sources cannot.

TIER 1 SOLAR SOLUTIONS

Monier uses the best and most trusted Tier 1 Solar Manufacturers – which make up only 2% of the industry. All Tier 1 Solar Manufacturers come with a 10 year warranty plus a 25 year performance guarantee, so you know you're making a real investment with a company who will be there every step of the way. The Bradford warranted solar systems are covered by an industry leading warranty.

MONIER SOLAR ROOFING GIVES BACK TO YOU



SAVINGS

Switching to solar lowers your energy bill and can actually make you money by feeding back to the grid. The average Australian home saves up to \$3,000* on average, per year with solar roofing.



INTEGRATED DESIGN

Seamless integration – without compromising design. SOLARtile and InLineSOLAR are beautifully integrated within Monier's strong and beautiful roofing.



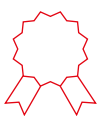
INNOVATION

Monier was the first to bring SOLARtile and InLineSOLAR technology to the Australian market.



EASY TO INSTALL

Monier will professionally install all Solar Roofing from delivery to final connection. All our products have been designed for quick and easy installation – we will even manage the government STC rebate^ for you.



QUALITY

All Monier InLineSOLAR and SOLARtiles come with a 10 year warranty plus a 25 year performance guarantee, including technical and industry-wide service support. All components are produced by ISO accredited manufacturers to ensure the components are of the highest quality.



EXPERTISE

Monier roofs have been protecting Australian families for over 100 years. Combined with the solar experts at Bradford Energy, we are the leading providers of Australia's highest quality solar technology.



ECO-FRIENDLY

Solar energy produces no waste, no noise, no pollution and does not deplete natural resources or fossil fuels.



MONITORING

Our solar monitoring apps also allow our customers to access real-time information on their energy usage to maximise energy efficiency.

* Assumptions: Savings calculation based on 5 people living in a detached house. Average electricity tariff for each state assumed. Based on an average load profile simulated on an average day. Actual payback may vary. Annual saving is simplified to 365 x daily saving. Savings amount for 5kW Bradford Solar ChargePack including Tesla Powerwall 2 (13.5kWh home battery).

^ Small-scale Technology Certificate (STC) – part of Australia's Renewable Energy Target program.

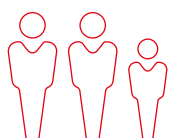


ENERGY SIZE AND USE

Is a 3kW, 5kW or 8kW best for your household? Choosing the right size solar system is important to ensure you reap the benefits for years to come. A 3kW system conserves your savings today, however the larger capacities of a 5kW or 8kW system will generate more energy for you to use during peak periods. It will also maximise the charge to your batteries, giving you more energy for evening use and the capacity for future battery upgrades.

LOW ENERGY USE

10-15kWh/DAY

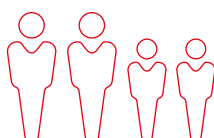


- ✓ Fridge
- ✓ Energy efficient lights (up to 10)
- ✓ LCD TV
- ✓ Standby appliances
- ✓ Washing machine (1 load per week)

RECOMMENDED SYSTEM 3kW

AVERAGE ENERGY USE

15-25kWh/DAY

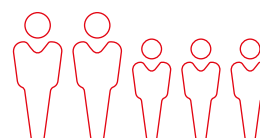


- ✓ Fridge
- ✓ Downlights (10-20)
- ✓ LCD TV
- ✓ Standby appliances
- ✓ Washing machine (3-5 loads per week)
- ✓ Dishwasher (up to 5 loads per week)
- ✓ Computer
- ✓ Small air conditioner*

RECOMMENDED SYSTEM 5kW

HIGH ENERGY USE

25+kWh/DAY



- ✓ Fridge
- ✓ Halogen lights (20+)
- ✓ Plasma & multiple TVs
- ✓ Standby appliances
- ✓ Washing machine (5+ loads per week)
- ✓ Dishwasher (5+ loads per week)
- ✓ Clothes dryer (5+ loads per week)
- ✓ Computer
- ✓ Large or multiple air conditioners
- ✓ Pool pump

RECOMMENDED SYSTEM 8kW **

Select a system to suit your specific needs by using our online calculator at monier.com.au

*Air conditioner size of up to 5kW

**Subject to approval to connect from the local grid provider

THE BENEFITS OF THE BATTERY








With a solar battery as a part of your solar system, you keep your excess solar electricity stored at home, instead of sending it back to the grid.

Later, when your solar panels aren't producing electricity, your fully charged batteries use their stored energy to help power your home into the evening. You will only send electricity back to the grid when your battery is fully charged, and only draw electricity from the grid when your battery is depleted and demand is high.

The size of the battery defines the amount of energy that it can store. For example, Tesla Powerwall 2 is capable of storing around two thirds of the daily electricity consumption for an average Australian home.

HOW YOUR BATTERY POWERS YOUR HOME

BATTERY SIZE GUIDE

What you can run between 4PM and 10PM**		BATTERY SIZE	
		6.5 kWh	13.5 kWh
	FRIDGE	2	2
	LIGHTS	18	35
	TV	1	2
	LAPTOP	1	3
	OVEN	1*	1*
	MICROWAVE	1*	1*
	WASHING MACHINE	0	1*

*Denotes run time of 2 hours

**Guide Only – based on typical appliance energy use over 6 hours



Tesla Powerwall 2 is available with a 5kW solar array

FIVE SIMPLE STEPS TO BEING SOLAR SMART

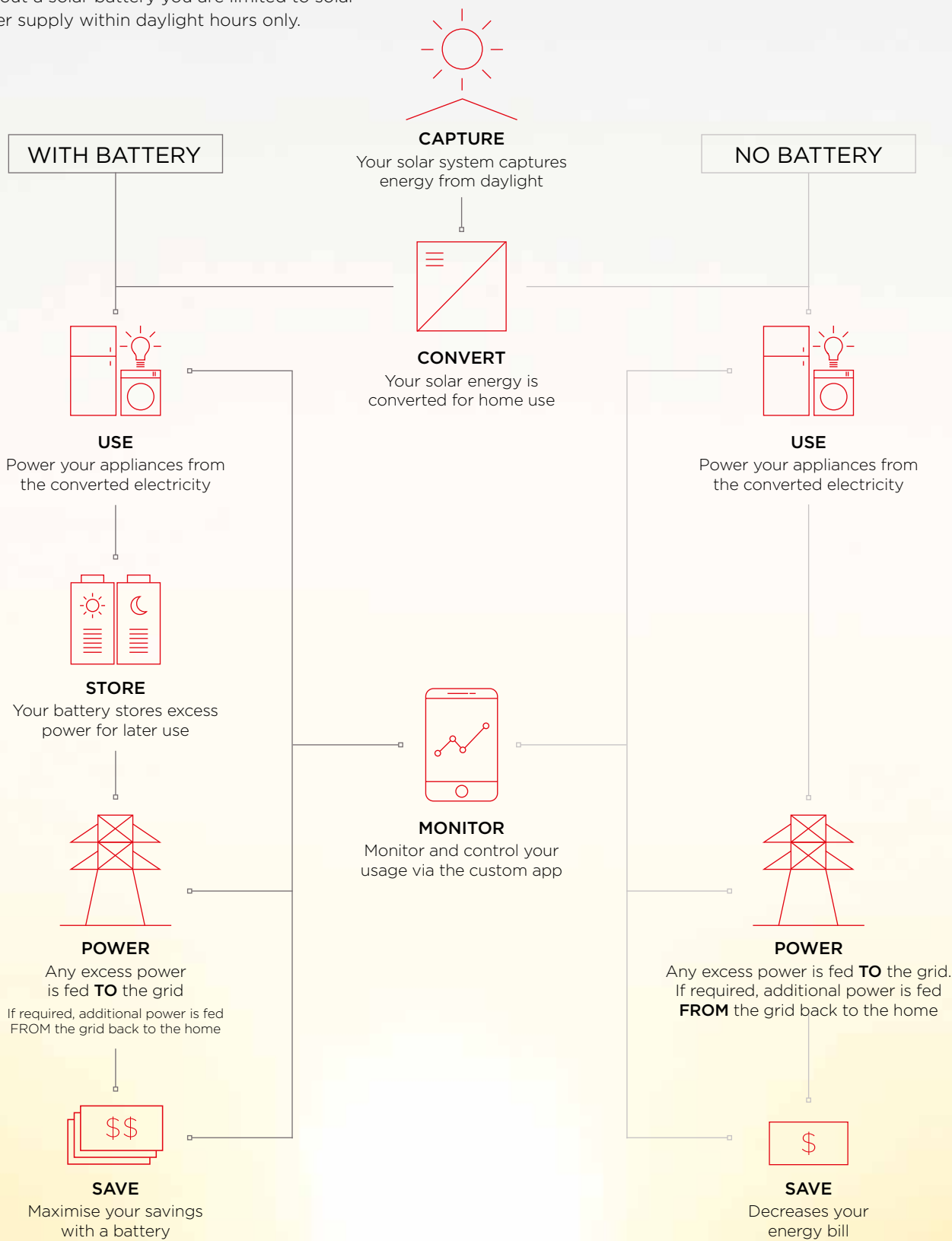
- 1 Cut energy costs by running household appliances during the day – usually between 10am and 3pm.
- 2 Run only one big appliance – like a washing machine or dryer – at once to keep your peak usage down.
- 3 Monitor your energy bill weekly to identify the key power users in your home.
- 4 Switch to lower energy consumption items such as LED lighting.
- 5 Add a solar battery to maximise the benefits of your solar system and have solar energy to use throughout the night.

Download our full guide for living solar smart from monier.com.au/solarguide

BATTERY VS NON-BATTERY

The diagram below demonstrates how solar power works with or without a battery.

Without a solar battery you are limited to solar power supply within daylight hours only.



MONIER SOLAR ROOFING OFFERING

Monier and Bradford Energy will tailor the best solar package to suit your location's environmental conditions, your usage patterns and budget. Whether it's a new home or a re-roofing project, the longevity and flexibility of Monier roofing means that we always provide a level of excellence that you'd expect from Australia's leading roofing company.



Standard Solar Panels



InlineSOLAR (Elite)








SOLARtile

MONIER ROOF TILES

First impressions definitely count. Your roof makes up 30% of the façade of your house, so choosing the right roof can make all the difference to the look and value of your home.

Achieve the look you want with strong and beautiful Terracotta or Concrete tiles from our solar roofing range.

-  **BETTER COLOUR PERFORMANCE**
-  **NEVER RUSTS OR CORRODES**
-  **SALT SAFE**
-  **THERMAL INSULATION**
-  **ACOUSTIC INSULATION**

TERRACOTTA



When it comes to performance and colour, nothing is longer lasting than Terracotta. Monier Terracotta roof tiles are made from natural Australian clay and fired at a temperature of over 1000°C, baking the colour right into the tile, enabling it to withstand Australia's harshest weather elements and the test of time. That's why we offer a 50 year guarantee on both colour and performance.

- ✓ Full range compatible with InlineSOLAR



CONCRETE



Concrete tiles are the most economical roofing material on the market. Concrete tiles get stronger with age and are tested to withstand the harsh Australian weather and come in the widest selection of colours and profiles. Our C-LOC™ Colour Technology allows our tile to retain its gloss 8x better than Colorbond® Steel.

- ✓ Full range compatible with InlineSOLAR
- ✓ Flat profile range compatible with SOLARtile. Madison, Georgian, Cambridge and Horizon



MONIER SOLARtile

Monier SOLARtiles' unique integrated design means you won't ever compromise the visual appearance of your home – you'll enhance it.

Interlocking SOLARtiles actually replace a section of your existing roof tiles. They can be laid in any configuration to blend into your roofline. See page 11 for the Monier roof tiles compatible with SOLARtiles.



INTEGRATED PANEL

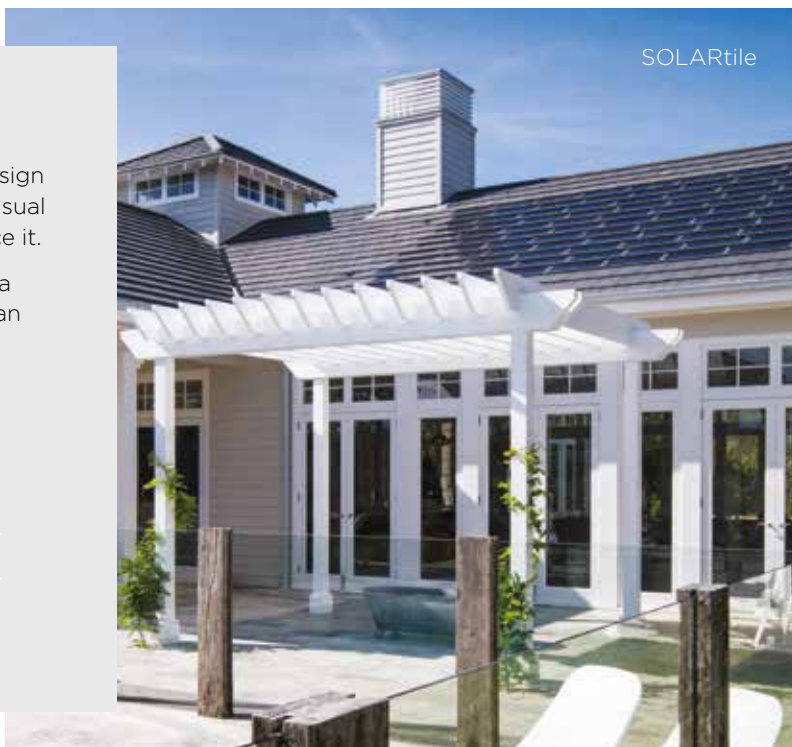


STRUCTURAL INTEGRITY



FIRST IN AUSTRALIA

SOLARtile



InlineSOLAR (Elite)



MONIER InlineSOLAR

Compatible with all Monier roofing tiles, InlineSOLAR is recess-mounted within your roof line, bringing you all the benefits of solar while maximising the street appeal of your home.

Available in standard black framed panels, InlineSOLAR can be upgraded to the elite panel option, using the industry-leading LG all-black panels.



INTEGRATED PANEL



STRUCTURAL INTEGRITY



AUSTRALIA'S GOLD STANDARD

STANDARD SOLAR PANEL

A range of efficient standard solar panels powered by Bradford Energy are also available. Years of development have resulted in stronger high-efficiency panels delivering reliable outputs for decades to come. To find out more, speak to a solar consultant on 1800 666 437 or go to monier.com.au

STEP BY STEP GUIDE TO SOLAR ROOFING

From adding beauty and value to your property to lowering energy bills, Monier Solar Roofing harnesses clean, never-ending renewable solar energy.

Follow the guide on the opposite page to choose the right solar package to suit the requirements of your home. Further detailed descriptions for the components are listed below.

DID YOU KNOW?

AUSTRALIA HAS THE WORLD'S
HIGHEST AVAILABLE SOLAR
ENERGY PER SQUARE METRE.



SOLARtile



STANDARD SOLAR PACK

Designed to have high system energy yields in low sunlight, these robust panels are capable of handling significant wind loads. These Tier 1 panels have been widely accepted worldwide due to their excellent performance, superior reliability and enhanced value.



ELITE SOLAR PACK









Manufactured by industry leader Canadian Solar, The All-Black Elite solar pack uses Mono-PERC Cells, dark coloured back-sheet and frames to offer enhanced aesthetics and generate 9% more power than conventional panels. With a sleek black finish and greater power generation, the Elite panels ensure your Monier roof continues to look incredible.

KILOWATTS: HOW TO MEASURE OUTPUTS

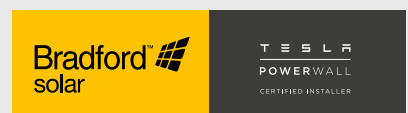
Solar system outputs can be measured in a single figure: KiloWatt-hours per day (kWh/day). On average, a 5kW solar system will generate approximately 20kWh of power per day. An average Australian home consumes approximately 20kWh per day.

Power ratings refer to the maximum output a solar system is able to generate. This varies by time of year and location.

See page 14 for specifications or visit monier.com.au for further information

1	2	3	4	
SELECT YOUR SOLAR ROOF	SELECT YOUR ROOF TILE	SELECT BATTERY OR NO BATTERY?	SELECT YOUR ENERGY PACK	
InlineSOLAR	<p>Compatible with all Monier Concrete and Terracotta roofing tiles, InlineSOLAR tiles are recess-mounted within your roof line, bringing you all the benefits of solar while maximising the street appeal of your home.</p> <p>Visit monier.com.au for our full Terracotta and Concrete roofing range</p> <div></div> <p>TERRACOTTA CONCRETE</p>	NO Battery	Standard Solar Pack	Elite Solar Pack
			3kW	3kW
			5kW	5kW
		YES Tesla Powerwall 2 	Standard Charge Pack	Elite Charge Pack
			5kW	5kW
SOLARtile	<p>Interlocking Monier SOLARtiles actually replace a section of your existing roof tiles. The Monier SOLARtile has been designed to integrate with the following tiles from the Monier Concrete range.</p> <p>Visit monier.com.au for further information</p> <div></div> <p>MADISON GEORGIAN</p> <div></div> <p>CAMBRIDGE HORIZON</p>	NO Battery	SOLARtile Solar pack	
			3kW	
			5kW	
		Yes LG-CHEM Battery 	SOLARtile Charge Pack	
			3kW	
			5kW	

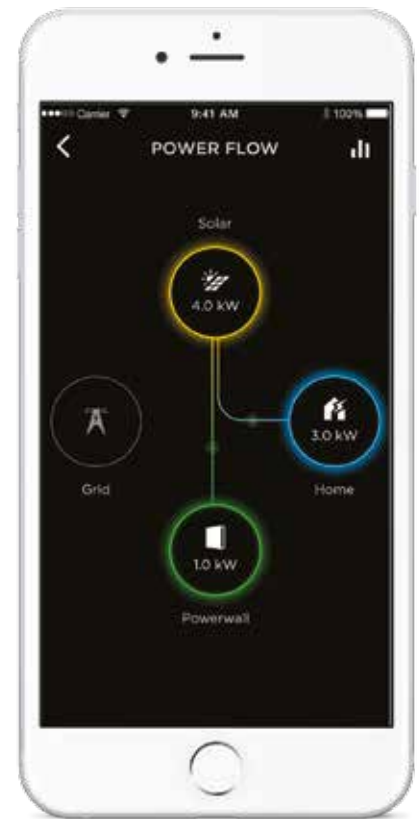
For our full range of solar roofing packages visit monier.com.au



THE SMARTEST ROOF IS ALSO THE MOST INTELLIGENT

MAXIMISE YOUR BENEFITS

Now you can monitor and control your home's energy usage and storage – all from our trusted monitoring app. All Monier Solar Roofing systems are compatible with the app, giving you real-time information on what's happening in your house. You can see exactly how your solar system is performing, and regulate your usage to get the most out of it.



Monitor your home from your phone with your app.

Download your app from Apple App Store (iOS) or Google Play Store (Android) to start monitoring your system. (Tesla App shown)

DID YOU KNOW?

**15,000 TIMES MORE SOLAR ENERGY
FALLS OVER AUSTRALIA THAN IS
CONSUMED BY OUR CONTINENT.**

MONIER ARE WITH YOU THROUGH THE ENTIRE PROCESS

Five simple steps to reaping the benefits of solar roofing.



1. CONSULT

Find the right Monier Solar Roofing package for your home and speak to a consultant for more information.



2. CHOOSE

Speak with your builder or roofing specialist to add a Monier Solar roof to your home. Visit monier.com.au to find your nearest roofing specialist and organise a quote.



3. QUOTE

Accept your solar roofing quote.



4. INSTALLATION

Your solar installation is then scheduled with the installation of your roof, with final installation taking place just before hand over.



5. ASSISTANCE

Your Monier solar consultant will be there to answer your questions and give advice on how to maximise your new system.

ROOFING ACCESSORIES



SARKING & VENTILATION SYSTEMS

For your high performance tiled roofs

Adding these systems will maximise your high performance Monier solar roof even further.

Reflective roof sarking plus hybrid or wind-driven ventilation can improve energy efficiency, help keep your home cooler in summer and reduce roof cavity condensation all year round. To optimise the performance of your new Monier tiled roof, consider installing Bradford roof sarking and Edmonds ventilation products.

A-LINE RIDGING

For that contemporary look

If it's a more contemporary, minimalist look you're trying to create, consider A-Line Ridging. A more traditional lapped ridge look can be achieved with our low profile tiles.



C-LOC™ TECHNOLOGY

Keep your tiles looking newer for longer with Monier's latest generation of coating. Your roof will be more resistant to fading, and C-LOC™ has been independently tested to have 8 X better gloss performance than standard COLORBOND® Steel*. Retain the look, beauty and re-sale value of your home with C-LOC™.

For the full range of roofing accessories go to monier.com.au

SPECIFICATIONS

Compare all the finer details with the detailed specifications for your Monier Solar Roof, powered by Bradford Energy. For further assistance speak to a Monier solar consultant on 1800 666 437 or go to monier.com.au

	Standard Panel	InlineSOLAR		SOLARtile
		STANDARD PANEL	ELITE PANEL	
Max power	280W	280W	295W	32W
Dimensions	1675 x 992 x 40	1675 x 992 x 40	1650 x 1992 x 40	730 x 410 x 61
Panel size	1.74 SqM	1.74 SqM	1.64 SqM	
Tiles per kW	4	4	4	30
Weight	18.5 kg	18.5 kg	18.2 kg	9 kg
Cell technology	Polycrystalline	Polycrystalline	Monocrystalline	Monocrystalline
Cell efficiency	16.8%	16.8%	18.3%	17.3%
Certification	IEC 61215	IEC 61215	IEC 61215	IEC 61215
	IEC 61731	IEC 61215	IEC 61731	IEC 61730
Product warranty	10 Years	10 Years	10 Years	10 Years
Performance warranty	25 Year performance guarantee	25 Year performance guarantee	25 Year performance guarantee	25 Year performance guarantee
Battery option	Tesla Powerwall 2	Tesla Powerwall 2	Tesla Powerwall 2	LG-CHEM, Fronius
Upgrade options	3kW to 5kW	3kW to 5kW	3kW to 5kW	3kW to 5kW
Number of tiles replaced	NA	NA	NA	2.5 roof tiles
Tiles per SqM	NA	NA	NA	4 SqM
Glass	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass

DID YOU KNOW?

Solar energy is a completely free source of energy. The average amount of sunlight radiation is 1.4kW per square metre of the Earth's surface. 15,000 times more solar energy falls over Australia than is consumed by our continent.

Solar energy produces no waste, no noise, no pollution and does not deplete natural resources or fossil fuels.

Solar panels are virtually maintenance free. Since the batteries require no water or other regular service they will last for years. Once solar panels are installed, there are no recurring costs.

Apart from saving money on electricity bills, solar power attracts many tax incentives and rebate programs to encourage the use of solar, and save home owners money at the same time.

Solar power can run appliances currently fuelled by natural gas, electricity, or oil – air conditioners, hot water heaters, and more. It's a cheaper, safer, and more eco-friendly solution.

Solar power is collected from daylight, not just sunshine, and is one of the cleanest, most sustainable, and most renewable resources in the world. Australia has the world's highest available solar energy per square metre.

For the power of a great looking roof go to monier.com.au





PROTECTING THE PEOPLE WE LOVE FOR OVER 100 YEARS

Now, with the world's first integrated SOLARtile and InlineSOLAR roofing systems Monier takes one of those abundant, free and powerful elements and harnesses it seamlessly into Australian homes.

Providing families with lower cost energy and freedom from electricity grids, while enhancing and adding value to the family home, is just another example of the continued innovation that has made this iconic Australian company such an enduring success.

There's strength and beauty in protecting the ones we love.

Contact Monier on
1800 666 437 to find out more.

monier.com.au



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