

# Solahart<sup>®</sup> power store<sup>™</sup>

AUSTRALIA'S FIRST SOLAR-SMART  
ELECTRIC WATER HEATER

---

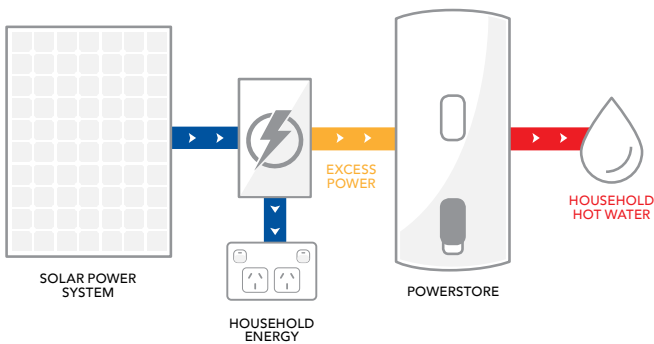


 Solahart  
ENERGY *Free* FROM THE SUN<sup>®</sup>

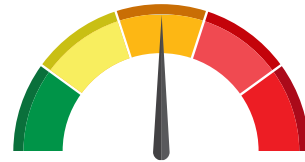
# WHY GIVE UP YOUR EXCESS SOLAR POWER WHEN YOU CAN USE IT YOURSELF?

Unlike conventional water heaters that heat water using energy from the grid, a Solahart PowerStore™ system takes excess power from your solar power system, and then uses it to heat water gradually throughout the day. Even on cloudy days, Solahart PowerStore™ ensures you have a reliable supply of hot water by drawing the minimum power from the grid that is necessary.

## Enhance your solar power investment



## Home Energy Management System



Combining a Solahart PowerStore™ system with a compatible Home Energy Management System (HEMS) will result in greater savings. Your Solahart dealer can put you in touch with a selected HEMS provider.

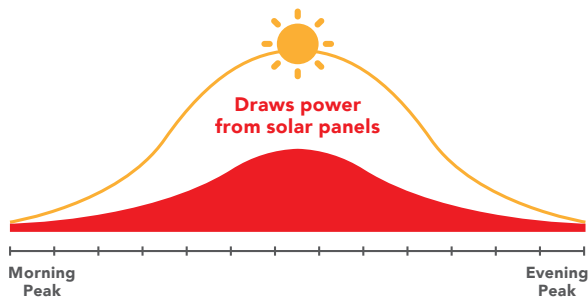
Adding a HEMS to your Solahart PowerStore™ system allows you to purchase energy when it is cheaper by shifting loads away from peak demand periods. It also helps predict solar energy generation from your solar power system by using seasonal and daily weather patterns, and decides on when it's best to use high energy consuming devices such as air conditioners and pool pumps.



IT'S MORE  
AFFORDABLE  
THAN SOLAR  
BATTERY STORAGE

# SOAK UP MORE POWER FROM YOUR SOLAR PANELS WITH SOLAHART POWERSTORE™

Introducing Solahart PowerStore™; Australia's first solar-smart electric water heater. Solahart PowerStore™ works with a solar power system where together with a power meter, it captures excess solar energy and turns it into hot water, rather than allowing it to be sent back to the grid. Like a battery, it stores energy - but it's more affordable. And because a Solahart PowerStore™ system minimises the amount of power you draw from the grid, it is also designed to reduce your household energy bills.



Solar panels turn the sun's rays into electricity. If the power generated isn't used immediately, it's sent back to the grid. But Solahart PowerStore™ harvests this excess power to heat water.

## Why choose Solahart PowerStore™?



### CONTROL

Reduce concern of low feed-in tariffs by controlling your excess solar power.



### ASSURANCE

Australia's solar energy experts for over 65 years



### AFFORDABLE ENERGY STORAGE

Lower entry cost than a battery storage system



### SOLAHART WARRANTY

10-year tank warranty# for peace of mind

## What makes Solahart PowerStore™ so smart?

World-leading smart technology developed, designed and built in Australia



### TWO STAGE WATER HEATING

A specially designed two stage water heater for a reliable supply of hot water.



### TRIPLE-BLADE HEATING UNITS

Innovative use of two triple blade variable power input heating units designed to claw back any excess solar power available.



### SMART CONTROLS

Intelligently sense when excess solar power is available and uses it to heat water when needed.



### LARGE THERMAL ENERGY STORAGE

Around 13kWh<sup>^</sup> of thermal storage capacity available for your excess solar power.

**SOLAR POWER  
NOT BEING USED  
IS DIVERTED TO YOUR  
WATER HEATER**



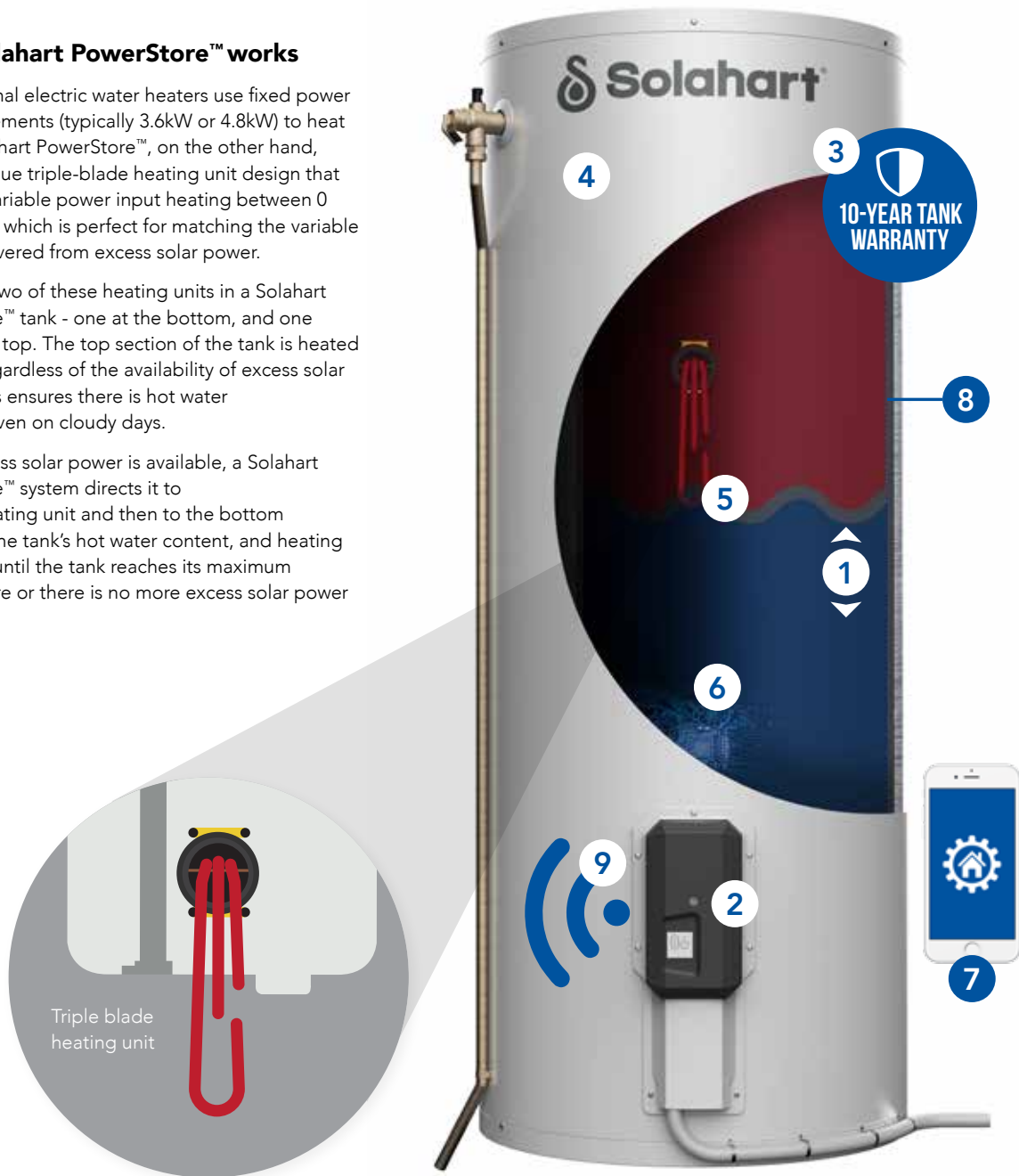
# A WATER HEATER LIKE NO OTHER

## How Solahart PowerStore™ works

Conventional electric water heaters use fixed power heating elements (typically 3.6kW or 4.8kW) to heat water. Solahart PowerStore™, on the other hand, uses a unique triple-blade heating unit design that provides variable power input heating between 0 and 3.6kW, which is perfect for matching the variable power delivered from excess solar power.

There are two of these heating units in a Solahart PowerStore™ tank - one at the bottom, and one toward the top. The top section of the tank is heated to 60°C regardless of the availability of excess solar power. This ensures there is hot water available even on cloudy days.

When excess solar power is available, a Solahart PowerStore™ system directs it to the top heating unit and then to the bottom based on the tank's hot water content, and heating continues until the tank reaches its maximum temperature or there is no more excess solar power available.



- 1 **Two stage water heating** – for a reliable supply of hot water
- 2 **Smart controller** – intelligent technology that captures excess solar power
- 3 **10-year tank warranty\*** – for peace of mind
- 4 **315L water heater** – suitable for families
- 5 **Unique triple-blade heating units** – claw-back any available excess solar power
- 6 **4 sensors** – for quick response to temperature changes and heating requirements
- 7 **Smart monitoring** – real-time data sent to your device app (third-party supplied)
- 8 **Class Y enamel tank coating** – for enhanced tank protection
- 9 **HEMS ready** – compatible with a selected Home Energy Management System

## Technical Information

Model	Solahart PowerStore™
Tank model	315PVV
Rated delivery	315 Litres
Boost capacity	150 Litres
Weight empty	92 Kg
Weight full	417 Kg

Water Supply	
Temperature Pressure Relief (TPR) Valve setting	1000 kPa
Expansion Control Valve (ECV)* setting	850 kPa
Max. supply pressure with ECV	680 kPa
Max. supply pressure without ECV	800 kPa
Cold water connection	Rp 3/4
Hot water connection	Rp 3/4

\*ECV is not supplied

Electric Boost Specifications				
Heating unit type	Triple blade variable power input			
Supply voltage	240 V 50 Hz			
Recovery rate @ 240 V temperature rise of:				
Max. Rating kW	Max. Current Amps	30°C** litres/hour	40°C** litres/hour	50°C** litres/hour
3.6	15	103	77	62

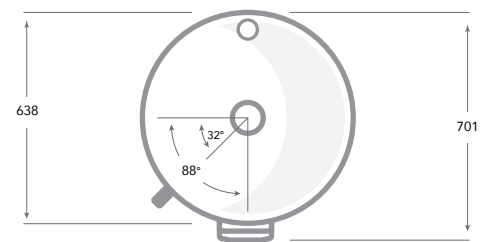
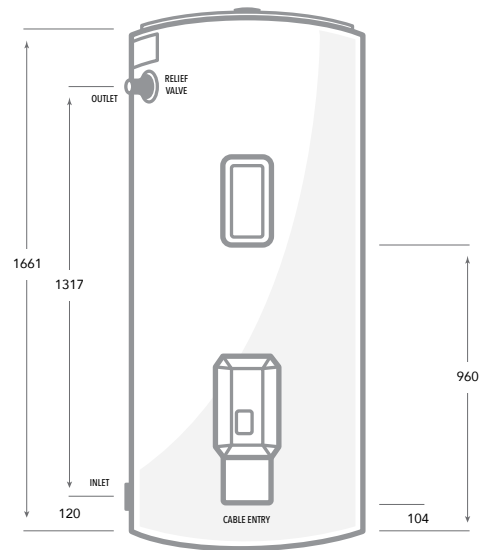
\*\* Max recovery rates at full power

Note: Harsh water regions – the Solahart warranty may not apply if this water heater is connected to a water supply which: is scaling with a saturation index >+0.8, or; is corrosive with a saturation index <-1.0 or, has a Total Dissolved Solids content >2500mg/L.

# Solahart Warranty Details: 10/3/3 warranty. 10 year cylinder supply, 3 year cylinder labour, 3 year parts supply including labour; applies to a single family domestic dwelling only. For full details see Owner's Guide & Installation Instructions.

^ Typical thermal storage available for excess solar, based on a 17°C cold water temperature.

## Dimensional Drawing



Do you have any questions about Solahart products?  
If so, don't hesitate to contact us.

Call **1300 769 475**  
or visit **[solahart.com.au](http://solahart.com.au)**

 **Solahart**  
ENERGY *Free* FROM THE SUN®