

Solar PV ready

The latest version of BMTB introduces a new Controller

The controller introduces several new exciting and innovative features including being SolarReady.

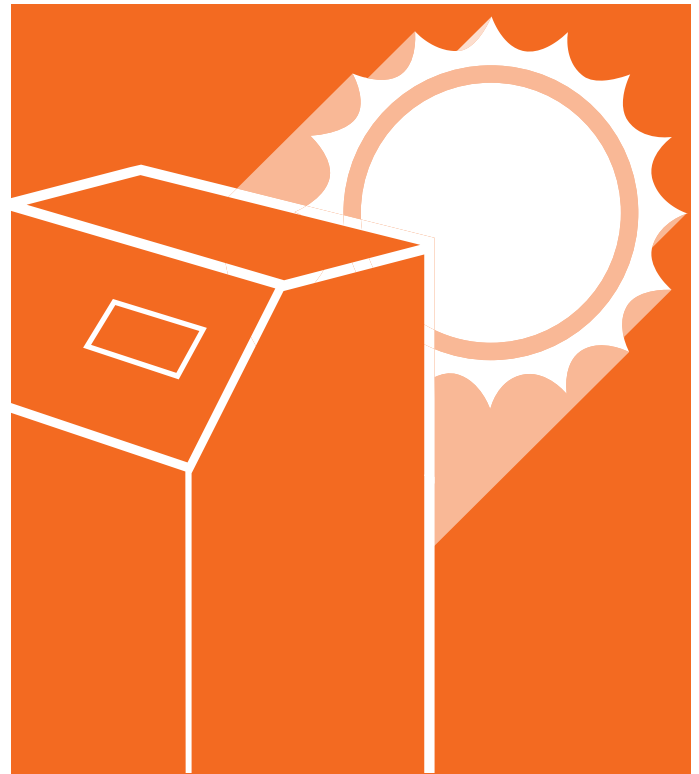
Solar Photovoltaic Integration & Operation Features

The BMTB hot water controller has functionality to connect to Solar PV grid inverters that send a signal to notify the BMTB controller when the inverter is generating more AC electricity than the small amount of electricity the BMTB requires for operation.

Operating Principles

When the controller is notified by the inverter that this solar energy is available, the BMTB controller will initiate a heating cycle to 60°C - The PV Temperature Setpoint. This utilises the A-rated, heavily insulated BMTB hot water cylinder as a battery by storing extra energy as hot water while Solar PV panels are generating electricity, ready to be used when they are not.

The PV temperature set point is defaulted to a higher temperature (60°C) than the default occupied temperature Set Point (55°C), allowing - Up to 1.75kW more energy, to be stored within the cylinder for use by the end user when they need it.



The impact on your solar PV system

The BMTB Heat Pump, which requires only 600W to operate - As little as 15% of a 4kW PV array - Is connected to the ring main of the property during installation and therefore draws this 600W the same way as other wired or plugged in appliances within the home.