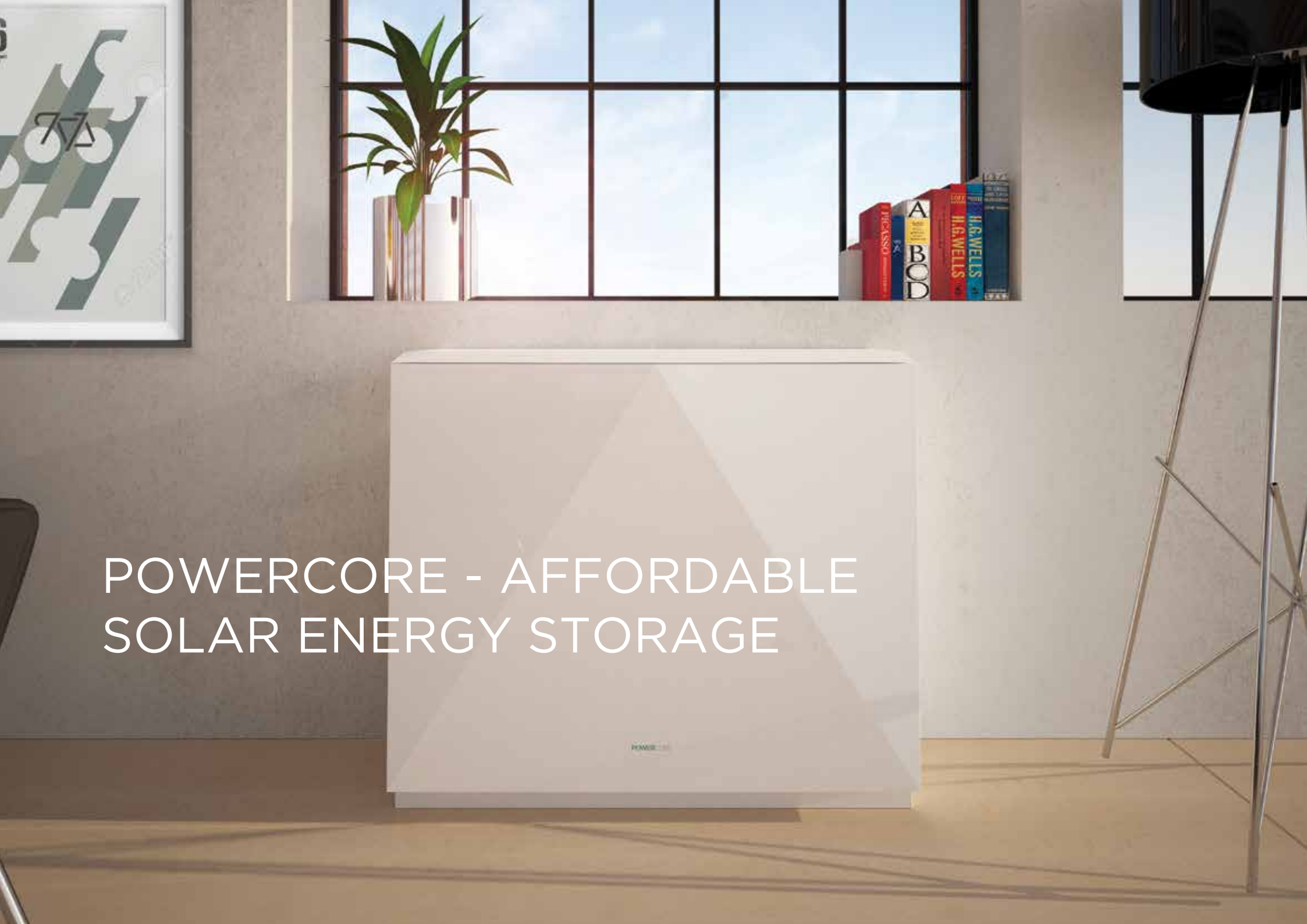
POWERCORE

DESCRIPTION & SPECIFICATION

Powercore Brochure V4.0



POWERCORE - AFFORDABLE SOLAR ENERGY STORAGE

INTRODUCTION

Powercore is a smart storage system and is designed to maximise self-consumption, enabling greater independence from energy companies and control of rising energy bills.

Powercore is available in different capacities and is flexible to suit your energy needs. The Powercore uses best in class Lithium Iron Phosphate (LiFePO 4) Batteries which have been tested extensively over many years. Powercore is specifically designed to be flexible & can be easily upgraded if your power consumption needs change

REVOLUTIONARY DESIGN

Designed by an award-winning UK designer, the “Powercore” brings an elegance to the household which is superior to other domestic energy storage systems. Internally, our engineers have worked hard to produce a system that is at the forefront of battery technology.

INCREASING SELF-CONSUMPTION

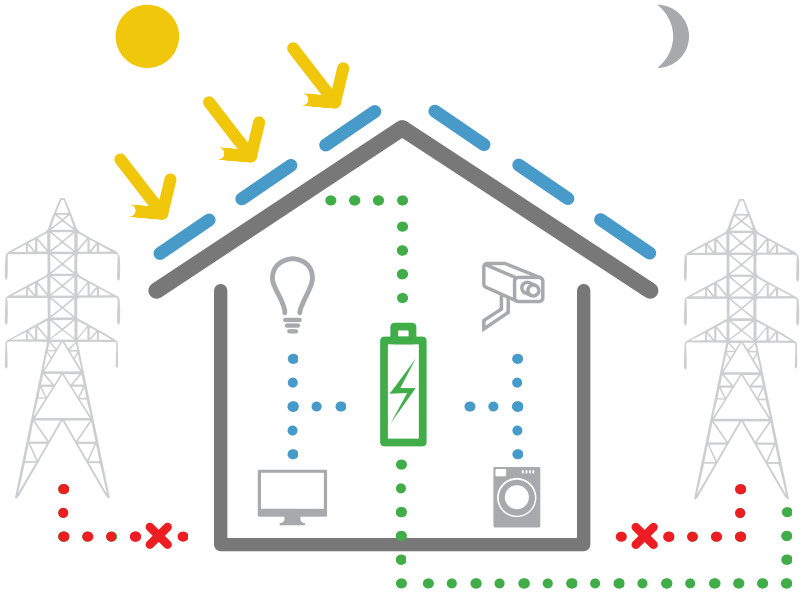
The Powercore is specifcally designed to increase the self-consumption of free solar energy. It is also designed to reduce your dependance on the grid

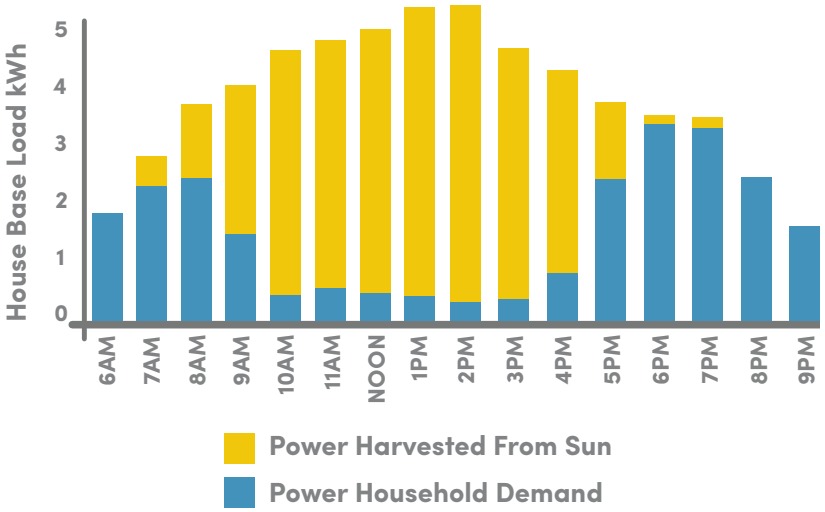
ENERGY SECURITY FOR YOUR HOME

Powercore can provide a UPS (un-interruptable power supply) capability.*

This means during a power cut, the Powercore will automatically continue to maintain selected critical circuits. This will generally include lighting, fridge/freezer, Internet & phones, but can be configured to your specific needs.

*UPS and Critical circuits are designed bespoke and provided at an extra cost





HOW IT WORKS

DURING THE DAY

Free solar energy charges your Powercore with the excess energy normally exported to the grid

DURING THE NIGHT

Powercore sends stored energy back into your house, which means you are not taking energy from the grid, therefore reducing your energy bill

YOUR FEED IN TARRIF

Powercore is AC coupled, which means that it is connected to your distribution board just like your oven or shower. Therefore it does not interfere with your feed in tariff payments.

SIMPLE INSTALLATION

In spite of it's extensive feature list, the Powercore is easy to install, and can be integrated into any domestic wiring system by one of our approved installers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INTERFACE WITH YOUR STORAGE SYSTEM & LEARN TO OPTIMISE YOUR SELF-CONSUMPTION

The Powercore unit includes a powerful local display unit. The LCD display enables user-friendly interaction to understand how the system is functioning. It also enables remote monitoring and control. Powercore's portal is free of charge and the performance of your renewable energy systems, including Solar PV, can be monitored on a mobile device. Remote configuring and optimisation updates are also possible, ensuring peak performance with minimal disruption.

Powercore delivers more than just a unique energy storage system – it provides a service that enables you to learn and optimise your solar consumption, maximising the benefit from your investment

INSTALLATION IS SIMPLE
& DESIGNED TO BE AS NON-INTRUSIVE AS POSSIBLE

1 The Powercore is pre-built and configured - simply locate and add the storage batteries. A standard installation will normally take a few hours

2 The AC connection is Bi-Directional. When the house demand increases energy can be transfered from the batteries to the house

3 Powercore constantly monitors the solar yield and the demand of the house. Our team install sensors to constantly monitor the solar yeild and demands of your house

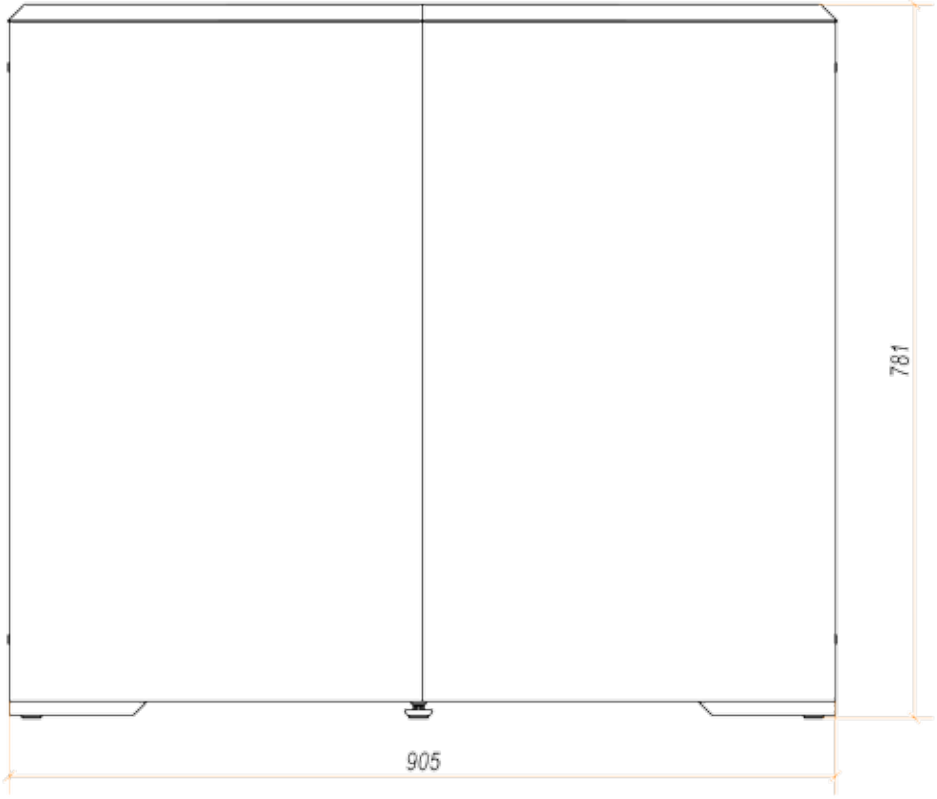
4 Your pre-selected critical circuits can be connected to the Powercore's UPS system. This ensures they will run in the event of a powercut*

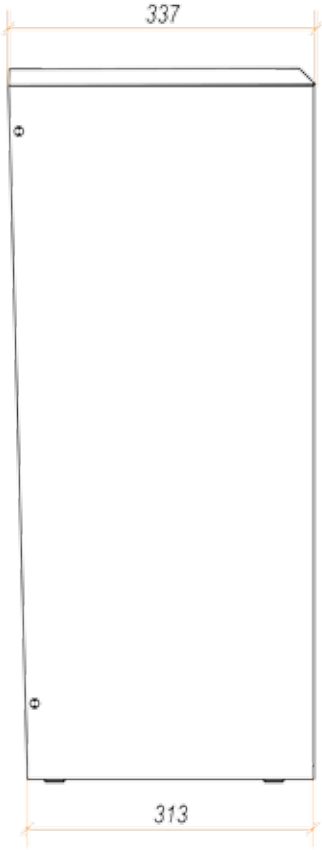
5 Trained installers will take you through the user-friendly interface unit, and help you set up your hand-held devices for remote monitoring

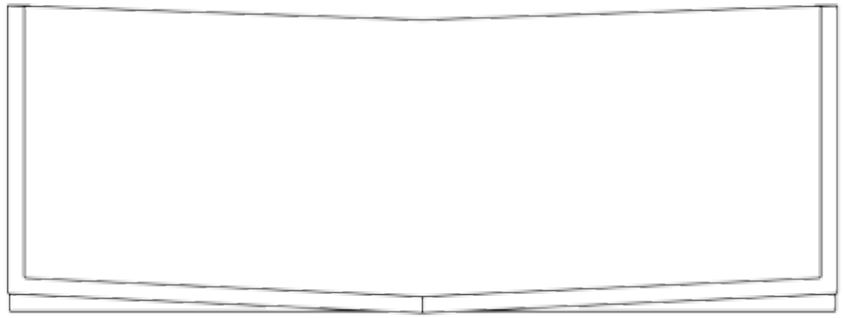
*UPS and Critical circuits are designed bespoke and provided at an extra cost

TECHNICAL DATA SHEET

POWERCORE	Powercore D1	Powercore D2	Powercore D3
STORAGE			
Battery			
Installed Capacity (kWh)	2.4	4.8	7.2
Useable Capacity 80% DOD (kWh)	1.92	3.84	5.76
Warrantied Battery Cycles		6000	
Battery Type		Lithium Iron Phosphate (LiFePO4)	
Nominal Voltage		50	
Operating Voltage		45 to 54	
Battery Management System		CANBus	
INVERTER			
Power (W) Output Cont @ 25C		2500	
Output Voltage		Output Voltage: 230 VAC ± 2% Frequency: 50Hz ± 0.1%	
Max Efficiency		95%	
Zero Load Power - Max (W)		16	
Standards		Safety EN 60335-1, EN 60335-2-29 Emission / Immunity EN55014-1 EN 55014-2, EN 61000-3-3, Automotive Directive 2004/104/EC	
CHARGER			
Max Charge Current (amps)	25	35	35
AC Input		Voltage Range: 187-265 VAC Input Frequency: 45-65 Hz	
Overall Weight (Chassis 52Kg)	75Kg	98Kg	121Kg
Overall System Operating Temp		0 to 45°C	
Humidity (non condensing)		Max 95%	







POWERCORE DIMENSIONS

POWERCORE

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