

POWERCORE™

PowerCore™

POWERCORE™
DESCRIPTION & SPECIFICATION



Designed by an award-winning UK designer, the “PowerCore™” brings an elegance to the household which is superior to any other Domestic Battery. Internally, our engineers have worked hard to produce a system that is at the forefront of battery technology & performance.

PowerCore™

INCREASING SELF-CONSUMPTION OF YOUR PV SOLAR

“The PowerCore™ uses the best in class Lithium Batteries which have been tested extensively in the automotive industry over many years without incident. Our batteries also provide more cycles and greater depth of charge than any other battery. We provide 7000 warranted cycles, but have test data to show that our batteries last more than 9000 cycles to 100% DOD”



The PowerCore™ storage and energy management unit is designed to retrofit into your existing PV solar system and increase self-consumption. On average owners of PV panels will only consume 30% of PV solar generated energy, the rest being exported back to the grid. PowerCore™'s smart storage system is designed to maximise self-consumption, enabling greater independence from energy companies and rising energy bills.

The PowerCore™ is available in capacities of 4.56, 6.84 and 9.12kWh. The PowerCore uses the best in class Lithium Batteries which have been tested extensively in the automotive industry over many years without incident. Our batteries also provide more cycles and greater depth of charge than any other battery. We provide 7000 warranted cycles but have test data to show that our batteries last more than 9000 cycles to 100% DOD.

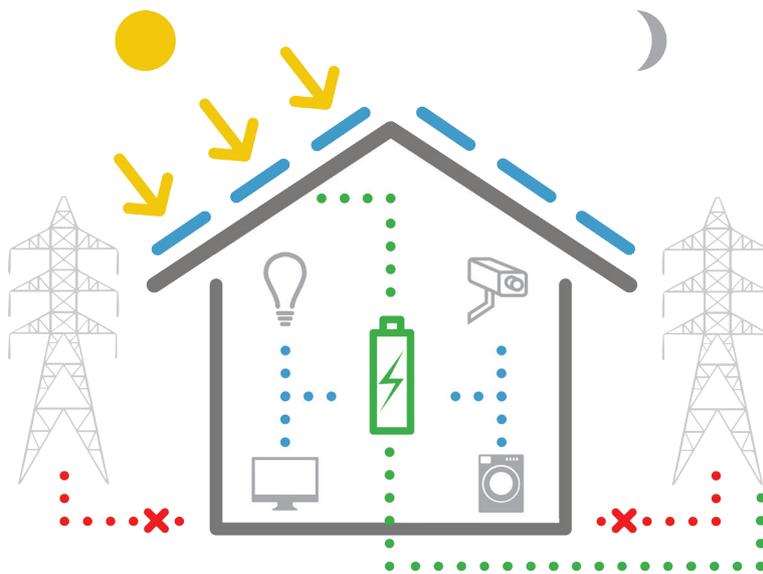
PowerCore™ **AFFORDABLE**
SOLAR ENERGY STORAGE

PowerCore™

SUBSTANTIAL UPS – SECURITY FOR YOUR HOME

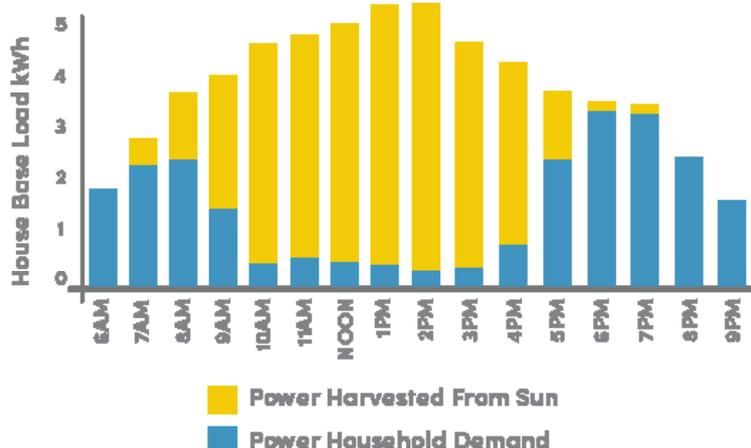
Additionally, PowerCore™ provides UPS capability. That means during a power cut, the PowerCore™ unit will automatically switch into UPS mode and continue to maintain selected circuits for your home’s emergency needs – these will generally include lighter loads, but critical applications, such as prioritised lighting, fridge/freezer, Internet, phones. Switching time is quick enough to maintain operation of computers without disruption.

DAY
Solar energy charges your batteries with excess PV normally exported to the grid



NIGHT
Stored energy is used when PV energy is not sufficient, or during the evening when there is no PV energy

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.



PowerCore™

DATA SHEET



POWERCORE

PowerCore™ D1

PowerCore™ D2

PowerCore™ D3

STORAGE

Battery			
Installed Capacity (kWh)	4.56	6.84	9.12
Useable Capacity 90% DOD (kWh)	4.10	6.15	8.20
Warrantied Battery Cycles		7000	
Expected Battery Cycles		>9000	
Capacity After 7000 Cycles		85%	
Battery Type	LiNiMnCoO ₂ (Lithium Nickel Manganese Cobalt Oxide)		
Nominal Voltage		51.1	
Operating Voltage		46.2 to 57.7	
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

Charge Current (Max)		35 Amps	
AC Input	Voltage Range: 187-265 VAC Input Frequency: 45-65 Hz		
Overall Weight (Kg)	75	95	115
Overall System Operating Temp		0 to 45°C	
Humidity (non condensing)		Max 95%	

PowerCore™

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 PV, can be monitored on a smart phone and iPad. Remote configuring and optimisation updates are also possible, ensuring peak performance with minimum disruption or down-time.

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

PowerCore™

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. Installation will be approximately 2 hours, including testing.
- 2 The Bi-directional AC cable is connected from the PowerCore™ unit to your main distribution board.
- 3 The system constantly monitors the solar yield, and the demand of the house, with sensors that can be easily installed with minimal disruption.
- 4 Your pre-selected prioritised circuits are connected to the PowerCore™'s UPS system.
- 5 Trained installers will take you through the user-friendly interface unit, and help you set up your hand-held devices for remote monitoring.

POWERCORE™

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