

Super Capacitor

Smart Energy Storage

Wall Mount

Why use a Super Capacitor?

Super Capacitors (Super Caps) are the next generation energy storage with advanced performance where it matters most. They have a lifespan of more than 30 years with no capacity degradation.

A high charge and discharge rate with more than 98% round trip efficiency at a 100% depth of discharge make Super Caps the most efficient way to store energy.

How do Super Caps work?

Unlike batteries, Super Caps are manufactured by using a Graphene based composite to store energy electrostatically.

Super Caps store more energy and have higher outputs than batteries. Combined with high performance and long-term stability, they are the ideal safe energy storage technology.





10 YEAR WARRANTY

Model: Super Cap Wall Mount 5 kWh Model: Super Cap Wall Mount 15 kWh 100A Model: Super Cap Wall Mount 15 kWh 200A



A Magneto[™] Super Capacitor has the lowest total cost of ownership over its lifespan and is guaranteed, backed and serviced by our national network and distribution centres.

Let's compare...

General Performance

	Lead Acid Batteries	Lithium	Super Capacitors
Charging time	5 – 10 Hours	1 – 5 hours	<30 min
Life Cycles	700 to 1200	3000 to 6000	Min 50 000
Efficiency	30%	85%	>98%
Design Life	18 Months to 3 Years	5 to 15 Years	30 to 40 Years
Lifespan Capacity loss	>80%	>25%	0%
Installation requirements	Ventilation and Cooling	Ventilation and Cooling	No Ventilation or Cooling
Safety	Toxic and Flammable	Toxic and Flammable	Non-Toxic, Non-Flammable

Comparisons are based on an average I full cycle per day



Super Capacitor Energy Storage

Model Type: Wall Mount

PERFORMANCE SPECIFICATIONS

PERFORIVIANCE SPECI	FICATIONS			
Model	Wall Mount SKWh	Wall Mount 15KWh 100A	Wall Mount 15KWh 200A	
Total capacity	SkWh	15kWh	15kWh	
Nominal Voltage	48V/DC			
Maximum Charge Voltage	58V/DC			
Discharge Cut-off Voltage	37.8V/DC	39.2V/DC	37.8V/DC	
ESR/AC @1KHz 50% SOC	<10mΩ	<6mΩ	<10mΩ	
Max. Continuous Charge Current	100A		200A	
Max. Continuous Discharge Current	100A		200A	
Cells Self-discharge Rate	2% per month			
Projected Cycle Life (25°C)	50,000 times			
Round Trip Efficiency	98%		95%	
Recommended Depth of Discharge	≤90%			
Maximum Depth of Discharge	100%			
Cooling Method	Natural			
Shell Material	Metal and ABS plastic			
Parallel Connection	Up to 5 sets			
Monitoring Data	System Voltage, Current, Temperature, SOC, SOH, Cycle, Cell's Voltage			
Warranty	10 Years			

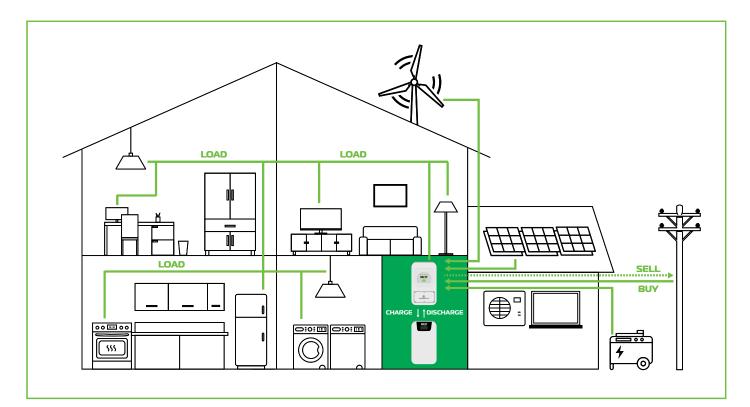
COMPLIANCE INFORMATION				
Safety	IEC62619, IEC62040			
Transport	UN38.3, MSDS			
CE	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013			
Environmental	RoHS			
Compatible Inverters	Magneto Hybrid, SMA, Sungrow, Goodwe			

ENVIRONMENTAL SPECIFICATIONS			
Environmental Protection	IP20		
Operating Humidity	0~90% RH Non-condensing		
Charge Temperature	0°C~+55°C		
Discharge Temperature	-20°C~+60°C		
Storage Conditions	-20°C~+40°C, 25% ~ 95%RH, SOC>30%, one full charge needed per two months		

MECHANICAL SPECIFICATIONS					
Model	Wall Mount SKWh	Wall Mount 15KWh 100A	Wall Mount 15KWh 200A		
Weight	65kg	116kg	116kg		
Dimensions	470 x 675 x 194 (mm)	700 X 174 X 765 (mm)	700 X 174 X 765 (mm)		
Mounting Options	Wall / Floor				

Energy solutions that work for you: Advanced, intelligent, compact and safe.

Magneto[™] Super Capacitor units are scalable to any capacity energy storage requirement for domestic, commercial or industrial application.





Contact our friendly and efficient team to discuss an energy solution that fits your lifestyle.



