LamasaTech

Commercial Solar Batteries

www.lamasatech.com

Solar battery storage for commercial use

Commercial battery storage systems store surplus energy generated by solar panels so this energy can be used when your business needs it.

Solar panels are only the first step in your move towards green energy and reducing your energy costs. Storing renewable energy is the vital next step towards decarbonisation, lowering your reliance on on-grid energy and minimising potential business downtime from grid blackouts.

With gas and electricity prices due to rise again, selling the surplus energy you generate back to the grid is no longer an effective way to offset the cost of your energy. With solar batteries, you will store surplus energy to reduce the on-grid energy you use and reduce your carbon footprint.

Store surplus energy

Protect against rising energy costs by storing excess solar energy generated by your solar panels, reducing your use of energy from the national grid.

Decarbonise your business

Make the move from brown to green energy sources to reduce your business's carbon footprint and promote your corporate social responsibility.

Peak shaving

Discharge the energy from your batteries at peak times of the day to avoid paying peak prices for power from the grid.

Back-up power

In the event of a grid blackout or energy rationing, you can draw your energy from your solar batteries to remain fully operational.

Off-grid set-up

Pairing a powerful solar battery system with your solar PV panels can allow you to operate fully independent from the grid and rely entirely on your own energy production.

Load shifting

Shift your energy usage so you consume more energy during the day while your solar panels are charging.

DC-coupled batteries that pay for themselves

LamasaTech provide top-tier solar storage systems that create an economical DC-coupled solution. We believe in creating a solar set-up that provides ROI, can be scaled as your business grows, reduces your carbon footprint and ultimately protects your business against energy price surges.

We pair our batteries with hybrid inverters to create a DC-coupled system. DC-coupled systems require less conversions of the energy generated from your solar panels, which is more energy efficient and results in more energy to power your business.

Our batteries are compatible with a wide range of hybrid inverters from the following brands.

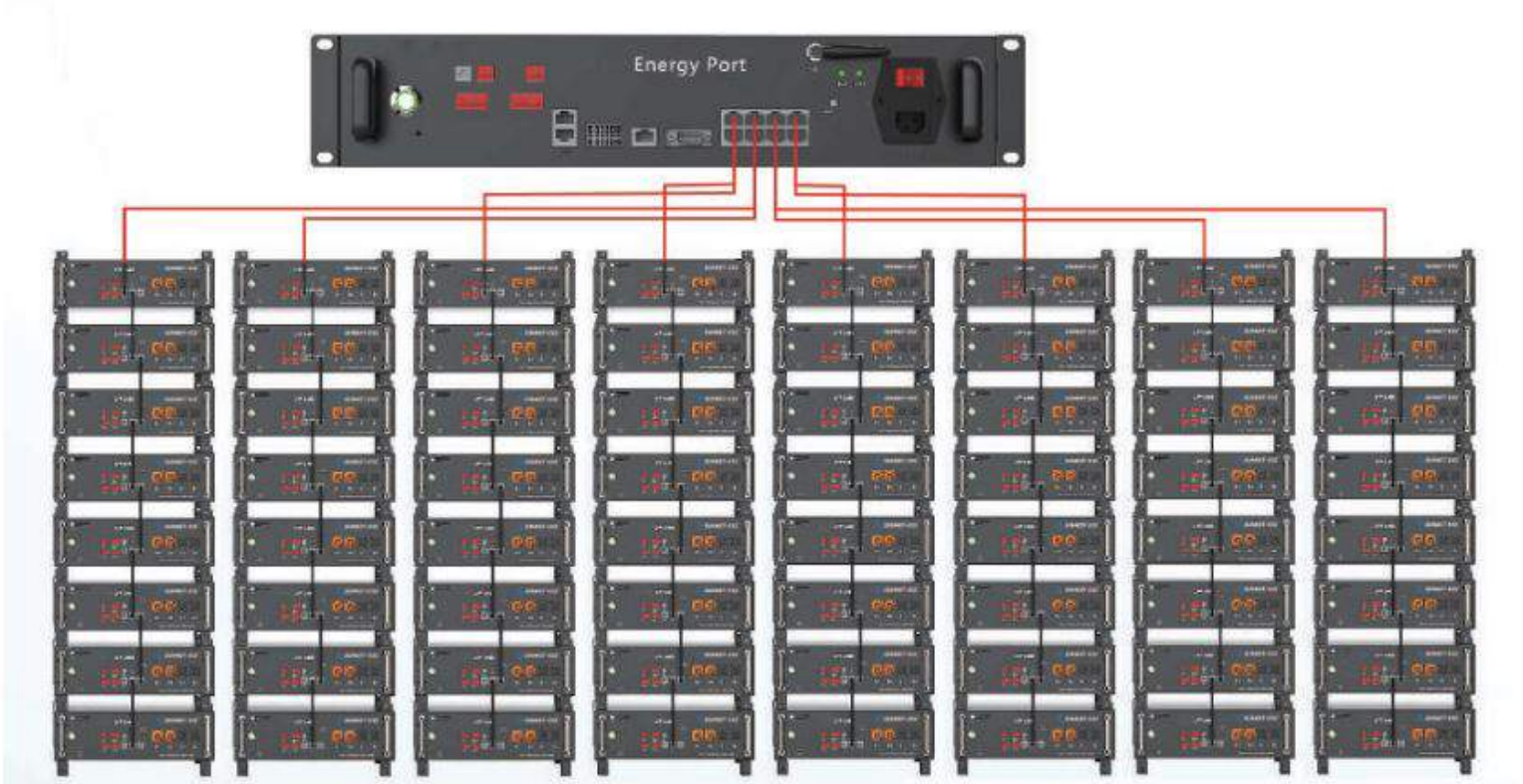
- Victron Energy
- GoodWe
- Growatt
- Luxpower Tek
- Deye
- Solis
- SofarSolar
- Voltronic Power

We can source the appropriate inverter on your behalf or provide a recommendation for you to source. All inverters have management software to monitor your system and manage import/export.

Industrial battery model

The best solar battery storage for commercial and industrial operations, scalable to all sizes of business.

- ✓ Indoor use only
- ✓ 2.5 kWh and 5 kWh modules available
- ✓ Scale to 500,000 kWh - stackable in series or parallel
- ✓ Small, lightweight design allows for easy installation and maintenance
- ✓ Modular system that can be expanded at any time
- ✓ Small footprint - batteries can be stacked easily without racks, to fit more batteries in less space
- ✓ Reliable LFP cells with a life cycle of >6000 cycles
- ✓ 90% depth of discharge
- ✓ Quiet fanless design with natural cooling system
- ✓ Average lifespan of 15+ years



Specifications

Model	LFP 5000	LFP 2500
Total Energy*	5 kWh	2.5 kWh
Usable Energy (DC)*	4.6 kWH	2.2 kWh
Nominal Discharge Power	3.0 kWh	1.5 kWh
Peak Power (Only Discharge)	6 kWh for 3 seconds	6 kWh for 3 seconds
Constant Current (Only Discharge)	80A	40A
Voltage	48~56Vd.c	48~56Vd.c
Nominal Voltage	51.2Vd.c	51.2Vd.c
Nominal Current	60A	30A
Max. Charge Voltage	57.6Vd.c	57.6Vd.c
Weight	45kg	23kg
Dimension (mm)	500 x 448 x 135mm	500 x 442 x 88mm
Safety	Cell UL 1973, CE	Cell TUV, CE
Max Connection Number	8S/4P	8S/8P
Maximum Recommended Depth of Discharge	90%	90%
Operation Condition	Indoor	Indoor
Operating Temperature - Charge	0~45 °C	0~45 °C
Operating Temperature - Discharge	10~55 °C	10~55 °C
WIFI Frequency Range	2400MHz~2483MHz	2400MHz~2483MHz
Humidity	<60% (No condensed water)	<60% (No condensed water)
Pollution Degree	3	3
Over Voltage Category	II	II
Cooling Type	Natural cooling	Natural cooling
Case Material	Metal	Metal
Colour	Black or White	Black or White

IP Rating	IP 20	IP 20
Installation	Ground installation	Ground installation
Protective Class	I	I
Warranty	10 years	10 years
Life Span	> 15 years	> 15 years
Communication	CAN/ RS585	CAN/ RS485
Protection Mode	Dual hardware protection	Dual hardware protection
Battery Protection	Over-current Over-voltage Short circuit Under-voltage Over temperature	Over-current Over-voltage Short circuit Under-voltage Over temperature
Hazardous Material Classification	9	9
Transportation	UN 38.3	UN 38.3

**Testing conditions based on temperature of 25℃ at the beginning of life. Total Energy/Usable Energy measured under specific manufacturer testing conditions. Results may vary marginally in other conditions.*

Battery pack model

The best solar battery for outdoor applications and for small to medium sized businesses.

- ✓ Indoor and outdoor use
- ✓ Wall mounted design
- ✓ 5 kWh and 10 kWh models available
- ✓ Scalable to 160 kWh with up to 16 batteries in parallel
- ✓ Reliable LFP cells with a cycle life of >6000 cycles
- ✓ 90% depth of discharge
- ✓ IP65 rate triple hardware protection
- ✓ Quiet fanless design with natural cooling system
- ✓ Average lifespan of 15+ years

Specifications - Battery pack model

Model	LT 5 kWh/LV	LT 10 kWh/LV
Total Energy*	5 kWh	10 kWh
Usable Energy (DC)*	4.6 kWH	9.2 kWh
Nominal Discharge Power	3.0 kWh	4.6 kWh
Peak Power (Only Discharge)	7 kWH for 3 seconds	10 kWh for 2 seconds
Constant Current (Only Discharge)	100A	100A
Voltage	48~56Vd.c	48~56Vd.c
Nominal Voltage	51.2Vd.c	51.2Vd.c
Nominal Current	60A	100A
Max. Charge Voltage	59.2V±0.5V d.c	59.2V±0.5V d.c
Weight	54kg	85kg
Dimension (mm)	490 x 650 x 188 mm	600 x 850 x 188 mm
Safety	CE	CE
Maximum Number of Parallel or Series	16	16
Maximum Recommended Depth of Discharge	90%	90%
Operation Condition	Indoor or Outdoor	Indoor or Outdoor
Operating Temperature - Charge	0~45 °C	0~45 °C
Operating Temperature - Discharge	-10~50 °C	-10~50 °C
Humidity	4~100% (No condensed water)	4~100% (No condensed water)
Pollution Degree	3	3
Over Voltage Category	II	II
Cooling Type	Natural cooling	Natural cooling
Case Material	Metal and plastic	Metal and plastic
Installation	Wall mount	Wall mount

IP Rating	IP 65	IP 65
Protective Class	I	I
Warranty	10 years	10 years
Life Span	> 15 years	> 15 years
Communication	CAN	CAN
Protection Mode	Triple hardware protection	Triple hardware protection
Battery Protection	Over-current Over-voltage Short circuit Under-voltage	Over-current Over-voltage Short circuit Under-voltage
Hazardous Material Classification	9	9
Transportation	UN 38.3	UN 38.3

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Book a free consultation

The capacity and style of battery you need depends on a number of factors including your current energy usage, daily yield from solar panels, maximum load and your average monthly and annual yield and location for your battery storage.

Book a call with our team and we'll provide a free consultation with recommendations on the best set-up for your requirements.

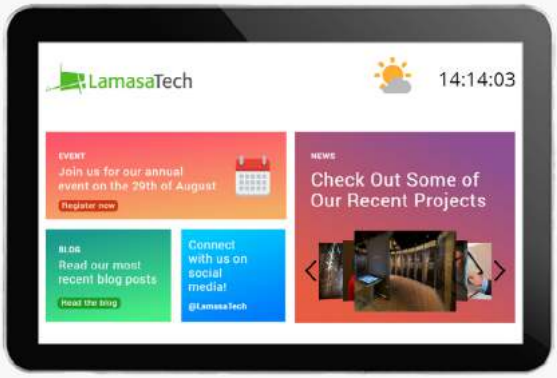
Request a callback on our website and we'll be in touch.

More technology solutions from LamasaTech...

LCD video walls

Visitor and employee sign-in system

Digital signage platform



For more information on our solutions, please visit lamasatech.com

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