

CREATE YOUR OWN RELIABLE POWER GRID

*SkyBox makes getting
electrical power 'off-grid' easy.*



Expandable



Plug + Play



**Local support
with  SkyCare™**



SIMPLE OFF-GRID SOLUTIONS

DESIGNED AND DEVELOPED BY  SkyEnergy

SkyBox gives
everyone freedom
and independence
from the power grid.



Acting as a central 'brain,'
the SkyBox manages incoming
power from your solar, wind,
or hydro generators.

Balancing these power sources
and storing excess energy in
the internal batteries, SkyBox
creates a reliable off-grid
electricity supply.



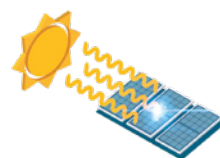
SKYBOX

10 powerful features



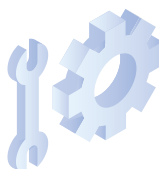
Independence from the grid

The SkyBox replaces grid connection supply and provides total independence from the grid.



Wide range of compatibility

Automatically manages energy input from solar, wind and hydro sources gives limitless potential.



10-year replacement warranty

The SkyBox comes with a massive 10-year warranty.



Get to know the SkyBox range

Different model sizes are available based on your power requirements.



THE SKYBOX RANGE



Huge storage capability

It stores power for later use for up to 100kW/h, so you're never in the dark.



No assembly required

The SkyBox comes prewired and preprogrammed for easy installation.



Best off-grid aftercare in Australia

Sky Energy provides SkyCare, an aftercare service, optional remote operating features and monitoring, and a 10-year cost recovery warranty.



Future proof with easy expandability

If more power is needed, it is simple to add on, making it the most flexible and future proof option.



Plug and play install for electricians

The great thing about the SkyBox is that your local sparky can install it, and they don't require an off-grid licence to do so.



Proudly Aussie made

Every SkyBox is put together and tested by our engineers in our headquarters in Victoria before being shipped out.

Experience living completely
off the grid—with the luxury
of being on the grid!



SkyBox is built Aussie tough

The SkyBox is designed for both indoor and outdoor use and provides enormous battery capacity in one cabinet.

Rigorously tested in the demanding Australian conditions, so you know it will handle everything you throw at it and more. Meaning you can enjoy all the luxury of being on the grid while being off-the-grid! When you want to expand, simply add more batteries to suit your storage requirements.

SkyBox Features

Solar Compatible

The SkyBox can be used in off-grid as well as other alternative energy systems. It is compatible with both solar charger controllers and new or existing grid-tie inverters.

No Break Supply

The SkyBox takes over the supply to the connected loads in a grid failure or when generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption.

Off-Site Monitoring

When connected to the internet, SkyBox can be accessed remotely, and settings can be changed.



Maximum Power

Up to 6 SkyBoxes can operate in parallel to achieve higher power output. Six units, for example, will provide 25 kW / 30 kVA output power with 420 Amps charging capacity. In addition to parallel connection, three units of the same model can be configured for three-phase output. But that's not all: up to 6 sets of three units can be parallel connected for a 75 kW / 90 kVA inverter and more than 1200 Amps charging capacity!

SkyCare™ Monitoring

Our free remote monitoring app will display all your system data in a comprehensive graphical format. System settings can be changed remotely via the portal. Alarms can be received by e-mail.



Power your home.
Your shed.
Or both.

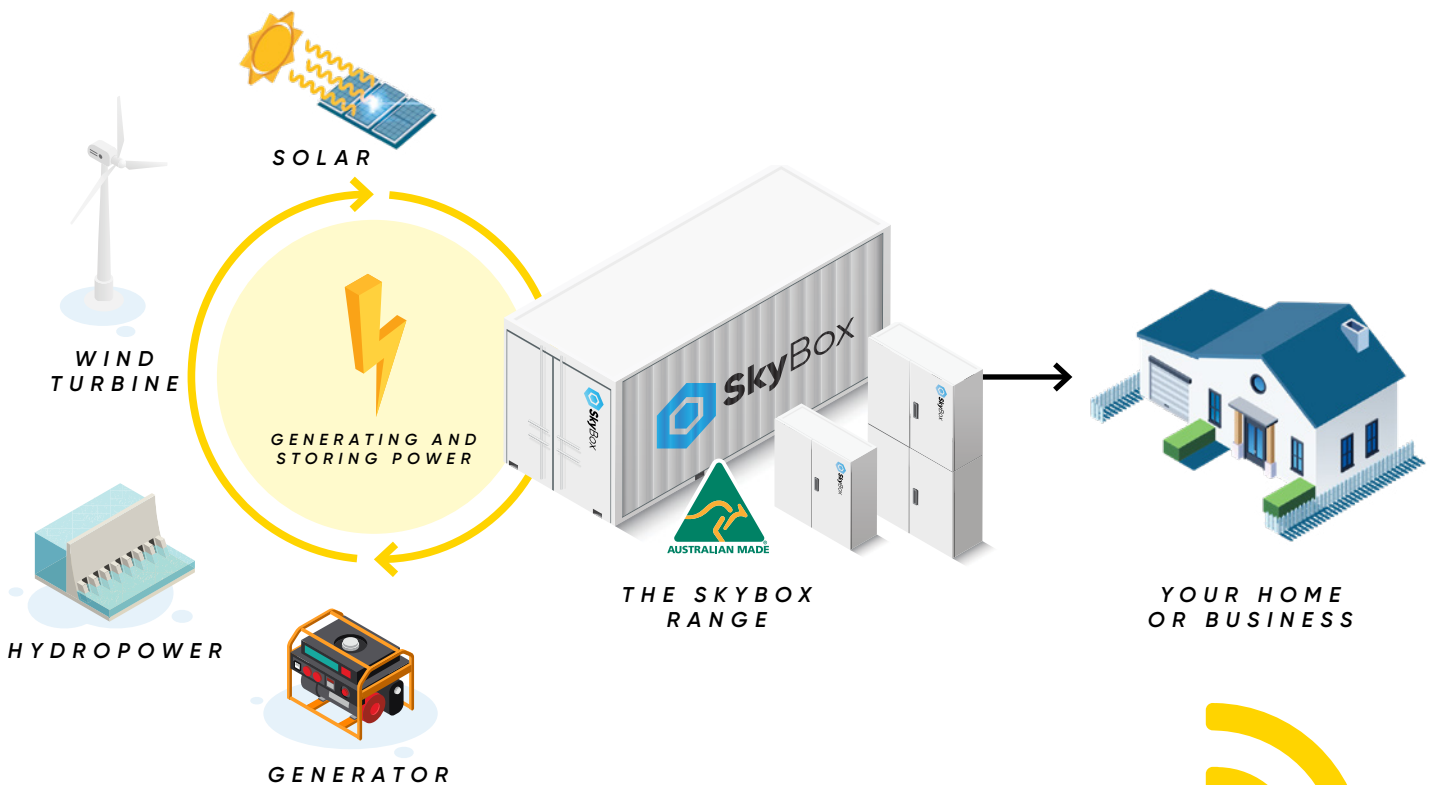


The ultimate flexibility for off-grid power solutions and backup.

Choose your power sources, and SkyBox will create a virtual power grid for your home during blackouts and in off-grid applications.

The Brains of the system, the SkyBox, acts as a conductor in the orchestra. It balances and manages power flow from your selected power source and provides a steady 240V of electricity to your home or business.

You can expand your SkyBox as your needs change and grow, delivering you outstanding flexibility and peace of mind.



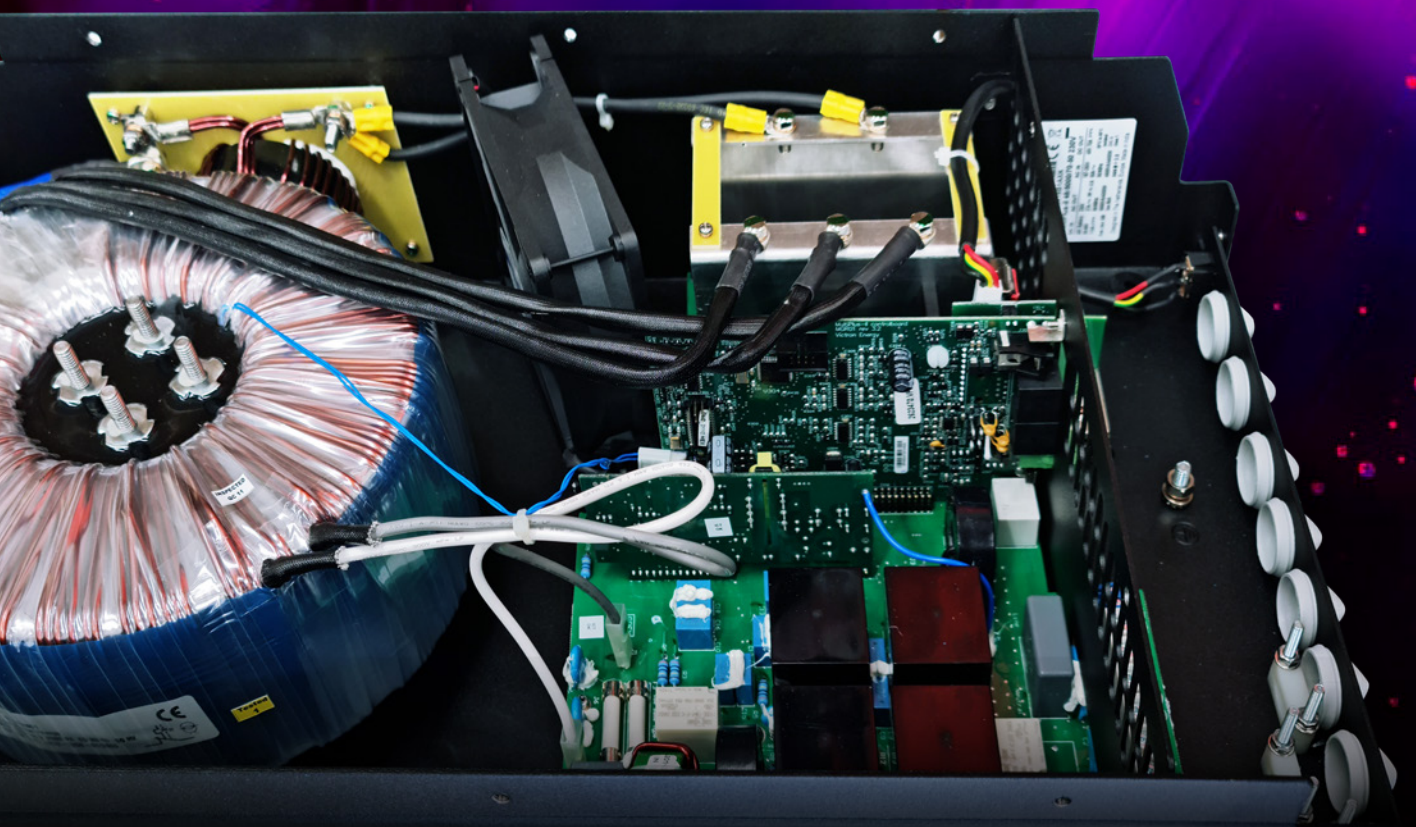
Monitoring

No matter if you're on the move working hard, or relaxing on your couch. With our specifically designed monitoring app, you have the power to see what's going on anytime, anywhere, as long as you have 4G connection.



The powerful core of your SkyBox.

- ✓ Lithium Model
- ✓ Up to 23Kwh per SkyBox
- ✓ Up to 9000W Peak Output
- ✓ -10° to 50° Operating Temperature
- ✓ 10 Year Warranty





Plug and Play.



01. Customize

Get the maximum potential out of your SkyBox when we customise it for your lifestyle and usage.



02. Build

Our team of electricians and engineers carefully build a SkyBox to your specifications and test thoroughly.

Then it's a teary goodbye as the SkyBox leaves our Victorian headquarters as it begins its adventure to its new home.



03. Install

Your SkyBox arrives safely to your property, then simply ask your local sparky to come and plug it in. Start powering your life!

Easy connection



Grid in



Power out



Get to know the SkyBox a little more.

Physical Specs

IP55 weather resistant
Lockable Cabinet
Floor or Wall Mounted
Custom Designed Cooling Solution
1000w X 1000h X 400d
White or Black Colours
Generator Input on outside
15A Plug on outside for easy use
Solar PV Cables plug and play from outside unit

Electrical Specs

Input voltage range 38 – 66 V
Output Output voltage: 230 VAC \pm 2 %
Frequency: 50 Hz \pm 0,1 % (1)
Cont. output power at 25 °C (3) 3000 VA / 2400 W
Cont. output power at 40 °C / 65 °C 2200 W / 1700 W
Maximum apparent feed-in power 3000 VA
Peak power 5500 W
Maximum efficiency 95 %

Solar Specs

Maximum output current 70 A
Maximum PV power 4000 W
Maximum PV open circuit voltage 250 V
Maximum efficiency 98 %

Battery Specs

2.4 / 4.8 / 7.2kWh Sizes
Lithium Ion Battery
2.4kWh per module
2.2kWh Usable Capacity
10 Year Warranty to 60%
48VDC Battery Voltage
Unlimited battery expandability with extra SkyBox cabinets

Monitoring

4G monitoring on app (12 months data supplied)
Off-site monitoring
Remote upgrades

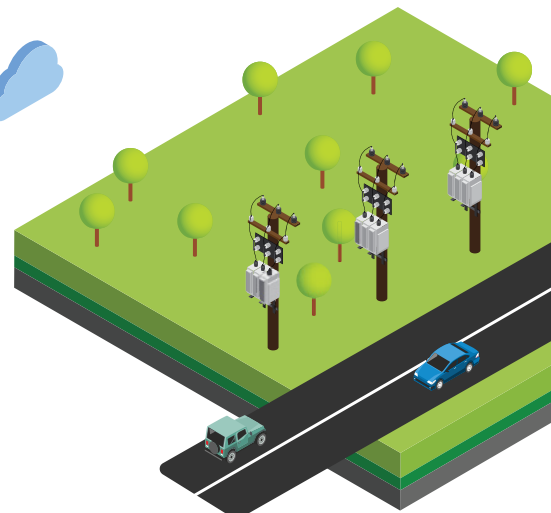
Blackout protection? No worries.

We built the SkyBox around reliability so you can live comfortably. Never worry about being stuck in a blackout. Blackout protection allows your battery and inverter to supply energy to your home if the grid power cuts out. You'll be able to power your home from the solar and battery system keeping everything running.

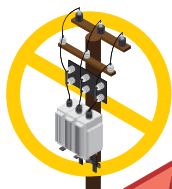
CASE STUDY

Meet Tom and Martha

Tom and Martha live in beautiful rural Victoria with their two dogs Ben and Jerry. Surrounded by stunning views, their newly built dream home contains a couple of big water tanks and a whopping sized shed that Tom could use as a workspace. All that was missing was a reliable power source.



NO GRID CONNECTION

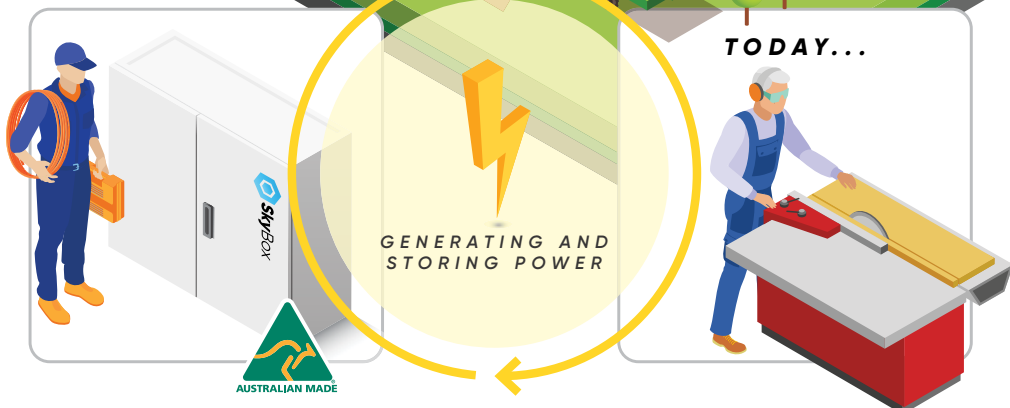


Their nearest power line is a fair way down the road, and connecting their house would cost a small fortune, not to mention paying the ever-increasing electricity bills on top of that year after year. Their other choice was to go entirely off-grid with solar.

That's when they discovered SkyBox, the powerful plug and play off-grid battery system that connects to any solar system or a generator, to give full seamless off-grid energy. The SkyBox produces so much energy that Tom and Martha feel like they're living on the grid.

Tom and Martha had the SkyBox delivered to their property and simply asked their local sparky to come and install it. Within a few weeks from the initial call to SkyEnergy, they now have unlimited power.

The shed is connected and enables Tom to work late into the night until Martha drags him inside. **Now they're producing enough power to send back to their home and run the whole property off-grid!**



Keep your tiny home powered with the SkyBox.

Our engineers' outside-the-box thinking has enabled us to develop an off-grid solar solution that fits in one compact box. Offering robust and efficient performance, it's the perfect match for our tiny home customers.

Simply add on to the original SkyBox if more power and storage is required. The best part is if you wish to relocate your tiny home, the SkyBox is quick and easy to connect and disconnect. Your local sparky can help you with this, no worries.



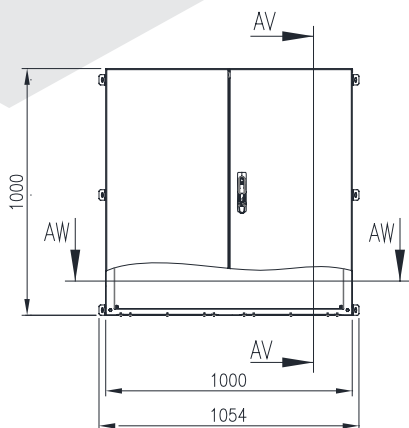
SkyBox



Features

Protection	Complies with IP55 IK10, NEMA 4 (Independent accredited test laboratory)
Standard	IEC62208, IEC/EN/AS60529
Material	<ul style="list-style-type: none"> · Body: 1.5mm galvanised steel sheet · Gland Plate: 1.5mm galvanised steel sheet · Door: 1.5mm galvanised steel sheet · Device Mounting Plate: 1.5mm galvanised steel sheet · Seal: Polyurethane
Body	The robust monoblock body is fabricated using 1.2mm galvanised steel sheet. Flat face sealing surfaces are provided to increase seal life. Pre-fitted blind nutserts are incorporated to accommodate mounts and accessory fasteners to eliminate drilling and retain IP rating. Integral device plate mounts and M6 earth stud is provided.
Double Doors	The robust surface mounted door is fabricated using 1.5mm galvanised steel sheet and incorporates concealed removable hinges with captive pins. The door is designed for a 110° opening. Each door contains integral cable management rail studs, M6 earth stud.
Seal	A high quality machine-applied full perimeter UL listed Polyurethane seal foamed in place (FIP) provides excellent sealing over a long life. Temperature resistance -40°C to 80°C (160°C short term loading).
Lock	3 point locking system with key-lock swing handle.

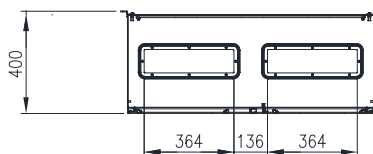
Dimensions



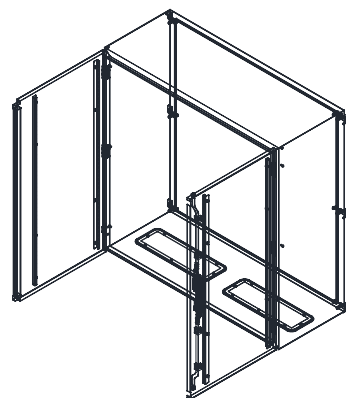
FRONT VIEW



SIDE VIEW



SECTION CC



FAQs

What is a SkyBox?

SkyBox is a solution to make getting electrical power 'off-grid' easy. In the past, you'd have to pay up to tens of thousands to run cables to your home or property; SkyBox solves that and doesn't require an off-grid qualified electrician to install. Since any electrician can install it, you can save thousands compared to installing an off-grid solar system through an off-grid installer or provider.

Who can install the SkyBox for me?

Any licensed electrician can install the SkyBox.

What power inputs will the SkyBox recognise?

The SkyBox can draw power from any wind turbine, water generator, solar or another power source. As long as that power source is installed via an AC Couple to the home, SkyBox will automatically detect the excess power and charge the batteries.

What is SkyCare?

SkyCare is a support team based in Victoria that you and your electrician can call with any technical questions about the SkyBox, this ensures you have an award-winning team behind your off-grid installation to ensure you have peace of mind with your off-grid power setup!

I have a generator in the shed, can I hook it up to the SkyBox?

Yes, though the SkyBox has specific requirements around voltage and receiving 'clean' power from a generator, as long as your generator puts out 50Hz and close to 240V, then it can easily be plugged into the SkyBox. SkyBox is pre-programmed for this feature, to make it easy.

Can it charge my electric car/tractor?

Yes, the batteries can be connected to a charger and then charge vehicles and appliances.

If I want to move my shed in 12 months is it easy to shift the SkyBox?

The SkyBox is easy to install and easy to uninstall by a licensed electrician, this means you can shift the SkyBox as you require.

Do any rebates apply to the SkyBox?

Depending on the region and state your SkyBox may be eligible for government subsidy.

Can I install the SkyBox outside?

Yes, when the door is closed and the cables are installed according to the instructions, the SkyBox carries an IP55 rating, meaning it is weather resistant.

Can SkyBox deliver 3 Phase power?

SkyBox can give your home three-phase capabilities, for those who need some extra juice, this is entirely possible and easy to do. We program everything for you before it leaves our warehouse, giving you easily installed, three-phase off-grid or backup power.

What's the depth of discharge of the batteries?

The Lithium batteries in the SkyBox have a 95% depth of discharge. This means you can use 95% of the stored power within the batteries. This is compared to the 60% usable capacity you usually get when using products like lead-acid batteries off the grid. This gives you a lot more endurance and power capacity.

Can I expand the SkyBox down the track?

Yes, you can expand the Sky Box's capabilities almost to infinity and beyond.



ABOVE: GLENN & JOANNA IN POREPUNKAH WITH THEIR CUSTOMISED SKYBOX

ABOUT SKY ENERGY—THE TEAM BEHIND THE SKYBOX

We're here to help take Australia "off-the-grid".

Sky Energy was founded by two electricians who had been installing solar for years, they did their apprenticeships in solar, even their dad did solar.

With their vision of taking everyone off the grid, the concept of the SkyBox was born. After many years of design and development, the SkyBox is now a reality. Powerful, reliable and most of all expandable.

Over time the Sky Energy team has grown to about 25 equally passionate individuals who all love renewables and exist to give our customers the best experience and break new ground in the renewable industry.



ABOVE: ROSS AND XAVIER TESTING A SKYBOX BEFORE IT GETS SHIPPED



If you have any questions or are ready to build your very own SkyBox, please contact us today.

With the help of our SkyBox sales team and engineers, we will custom build a reliable future proof solution together. Get ready to power your life with the SkyBox.

Phone:

1300 787 488

Email:

team@skyenergysystems.com.au





A new era in energy storage

B - LFP48 - 100 E 51.2V100AH



Sky Energy delivers safe lithium phosphate energy storage solutions in standard lead-acid battery sizes for a wide variety of applications.

The LFP 51.2V 100Ah Energy Storage Systems are a family of 51.2V battery modules and accessories. The 51.2V family is designed as a drop-in replacement for similar sized lead-acid batteries offering twice the run-time and nearly half the weight. The 51.2V series is designed for lower voltage, lower power and longer run-time applications. They are built with LFP Technology that offers outstanding intrinsic safety and excellent float and cycle life resulting in low cost of ownership.

Features

- Eco-friendly
- Lithium iron phosphate battery (LiFePO₄)
- Currently the safest lithium technology
- Less than 3% self discharging
- Maintenance-free, modular, and lightweight
- Battery monitoring storage history
- Built in safety protection
- Quality guaranteed
- 10 Years Warranty
- 15-18 Years Designed service life

Applications



Uninterrupted power supply



Marine application



Energy storage system



Tiny homes



Electric vehicle



Communication system

Safety

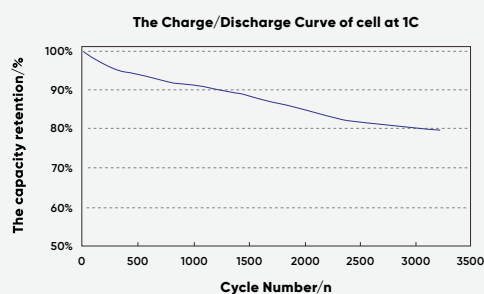
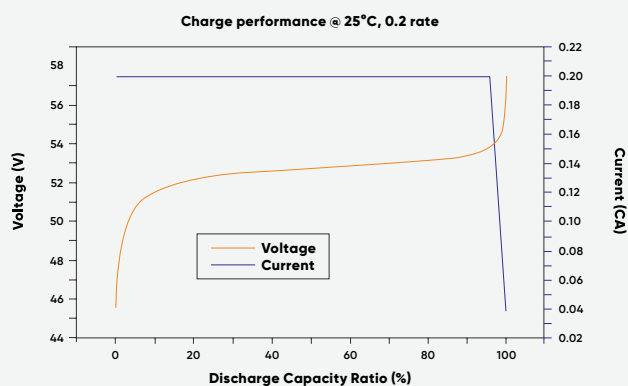
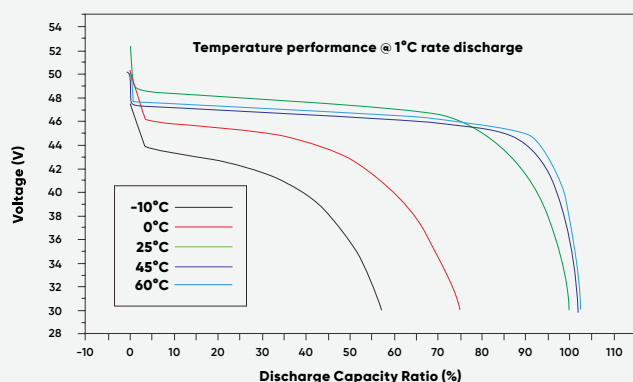
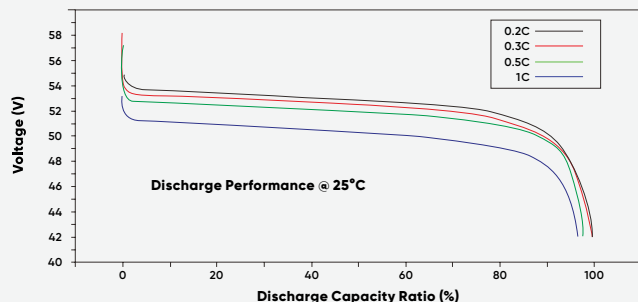
BSLBATT® batteries are based on Lithium iron battery technology (LiFePO₄). This is the safest Lithium technology available today. On top of that our engineered steel casing and electronics further increase safety and durability.

Technology

BSLBATT's batteries do not contain lead. Lithium Iron Phosphate (LiFePO₄) technology is an environmentally friendly way to store energy.



Performance



Specifications

ELECTRICAL SPECIFICATIONS

Nominal voltage	51.2V (16S)
Nominal capacity	100 AH
Energy	5120 WH
Efficiency	99%
Self discharge	<1% per month

DISCHARGE SPECIFICATIONS

Max. Continuous discharge current	100 A
Peak discharge current	100 A
Standard discharge current	50 A
Voltage at end of discharge	45.6 V

TEMPERATURE SPECIFICATIONS

Discharge temperature	(-20~60°C)
Charge temperature	(0~55°C)
Storage temperature	(-20~55°C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	About 495*483*178mm
Weight	About 46kg
Case Material	Steel
Cell type	Prismatic
Chemistry	LiFePO ₄

CHARGE SPECIFICATIONS

Recommended charge current	50 A
Maximum charge current	95 A
Recommended charge voltage	56.2 V
Charge mode	CC/CV

COMPLIANCE SPECIFICATIONS

Certifications	CEC, UL1973
	CE, ROHS 2.0
	IEC62619

Shipping classification	UN 3480, CLASS 9
-------------------------	------------------





[SKYENERGY.COM.AU/SKYBOX](https://skyenergy.com.au/skybox)

DESIGNED AND DEVELOPED BY  SkyEnergy