



FLEX

For businesses that POWER ON.
All-In-One AC Coupled BESS.



Commercial and Industrial
VPP-capable
EV Charging Support
Microgrid
Community BESS

AUSTRALIAN ENGINEERED BATTERY STORAGE

- Designed and engineered in Australia our BESS solutions are built on premium, field-proven components selected for reliability, longevity and performance in real-world conditions.
- A minimum 10-year warranty, backed by full lifecycle service and support delivered locally - from integration and commissioning through to preventative maintenance and advanced technical care.
- One trusted Australian partner across the entire project journey - providing the expertise, accountability and continuity that deliver genuine, lasting energy storage outcomes.

SERIOUS POWER

With the EVO Power Energy Management System, the power is in your hands.

- Solar Self-Consumption.
- Market Services Ready.*
- Peak Shaving.
- Optional Solar Inverter Control.#
- Retail Time-of-Use.
- Optional Backup Power.

ADVANCED SAFETY

- Integrated flammable gas detection and exhaust ventilation system for enhanced safety and environmental control.
- Advanced aerosol fire suppression system with integrated smoke and heat detection for fast, reliable protection.
- Explosion mitigation system featuring integrated deflagration panels for enhanced pressure relief and safety protection.
- Liquid thermal management LFP battery technology that allows for superior thermal performance.

PLUG & PLAY

- Modular system scales in 100 kW or site-specific power limited increments.
- Outdoor-rated, pre-wired and backed by comprehensive integration testing and verification in our Victorian facility, delivering a plug-and-play system that arrives ready to perform.
- Seamless integration with other platforms and APIs.

CASE STUDY

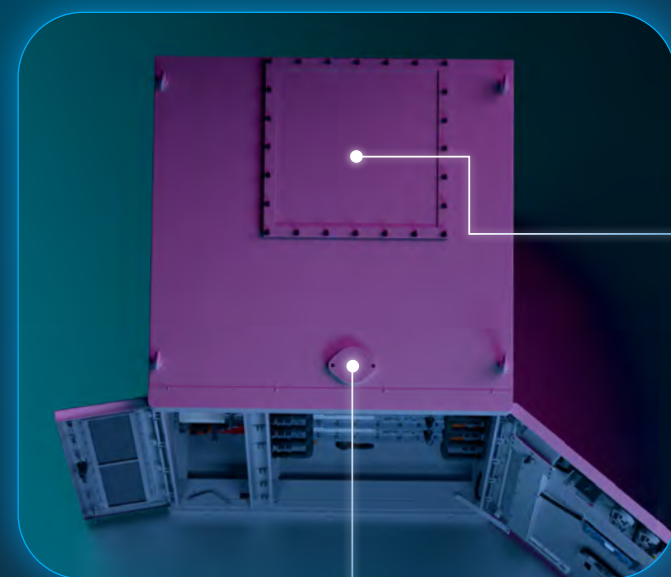


[Click or scan QR code to view the Phillip Island community battery project.](#)



* FLEX is designed to provide Market Services such as Very Fast FCAS, Arbitrage etc. through compatible VPP platforms.

#The solar inverter must support the SunSpec® Modbus protocol.



Deflagration
Panel

Chiller / Heater
Liquid Thermal
Management

Liquid Cooled/
Heated Battery
Modules

Fire
Suppression
Aerosol

Smoke/
Heat Detectors

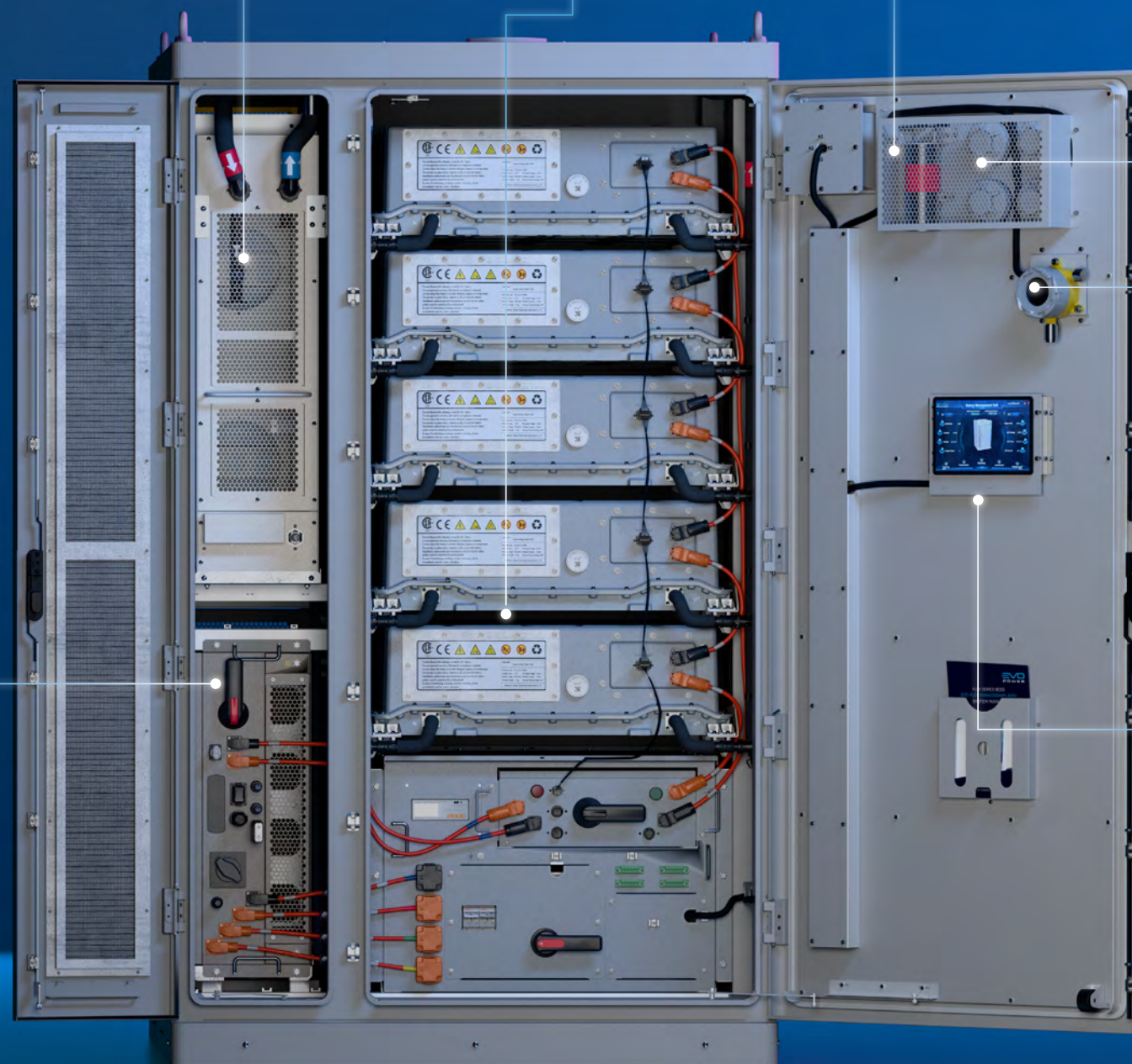
Active
Ventilation

FLEX BESS incorporates premium, globally trusted components renowned for their durability, reliability and proven long-term performance in demanding environments.

Inverter

Gas
Detector

Service
Terminal



L 1,350 x W 1,350 x H 2,300 mm

LEVEL UP FLEX Optional Extras

≡ Maintenance
Services

≡ Extended
Warranty

≡ Vandal
Protection

≡ Back-up
Kit

Automatically detects grid outages and restores backup power to critical loads downstream of the system.

≡ Acoustic Noise
Attenuator Kit

Front Attenuator

Rear Attenuator

≡ Combiner Box

500 kW

1000 kW



The FLEX Acoustic Noise Attenuator Kit is designed to achieve sound levels below 60 dBA at 1 metre, delivering quieter operation for noise-sensitive environments.

The FLEX Combiner's allow for a consolidated output through a single feeder to streamline integration into existing switchboards.



Delivering innovative solutions designed and manufactured in Australia to meet Australian requirements.

TAKE CONTROL

FLEX GIVES YOU TOTAL OVERSIGHT OF YOUR ENERGY USAGE.

EVO REMOTE CONTROL PLATFORM

- ≡ Programmable Peak Shaving Fixed Value and Characteristic Curve Control
- ≡ Active Power and Reactive Power Control

EVO GRID MANAGER MONITORING

- ≡ Dashboard for a System-Specific Overview
- ≡ Alarm Management
- ≡ Individual Reporting, CSV Export of Measurement Data
- ≡ Fleet Review - Tabular Display of the Key Performance Indicators for all Systems

EVO POWER SERVICE PORTAL

- Scheduled Maintenance Tickets
- Remote Monitoring
- Detailed Battery Warranty Data
- Single Asset or Fleet Management

UNLOCK POTENTIAL

TAKE FULL ADVANTAGE OF FLEX WITH GRID INTEGRATION.

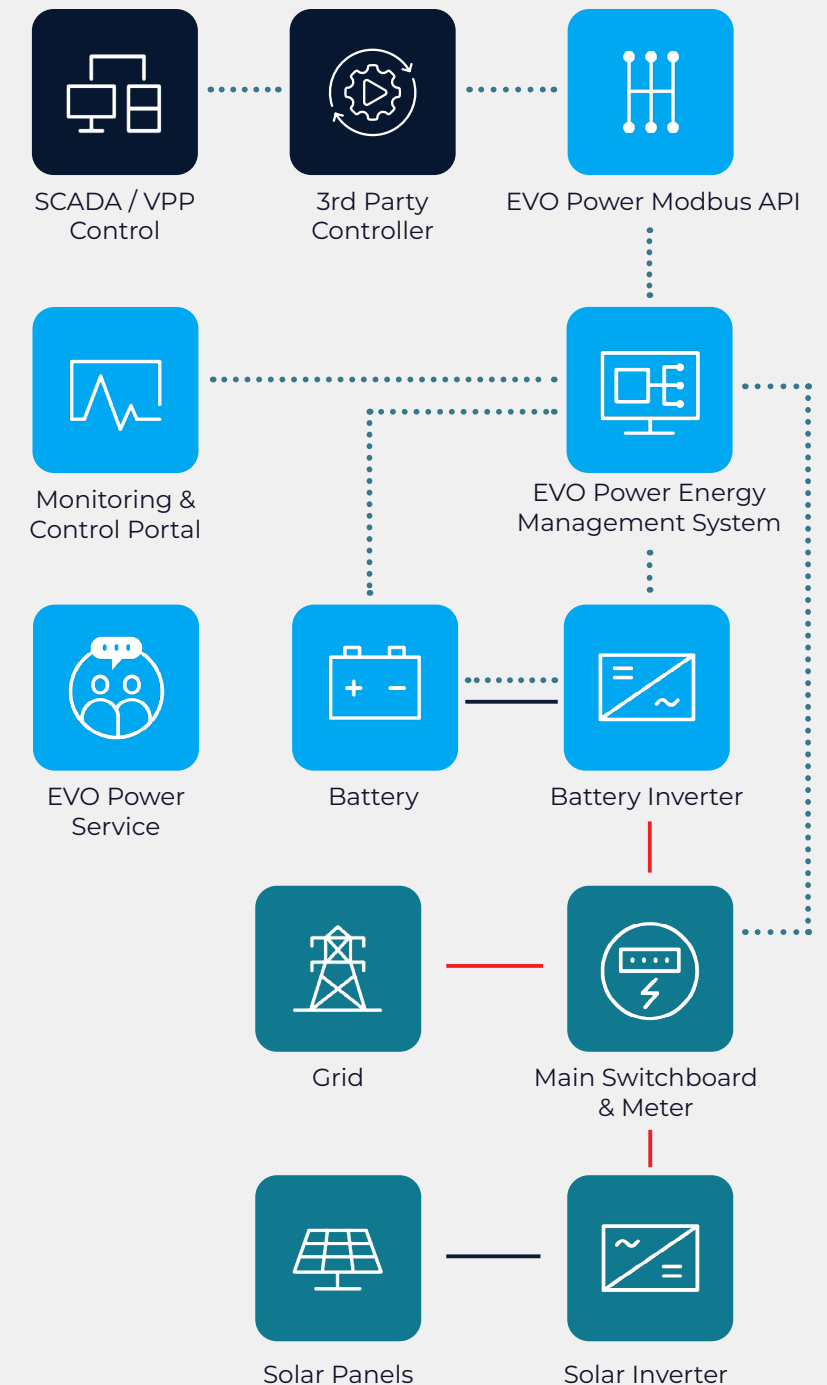
EVO POWER MODBUS API

- ≡ VPP integration with existing VPP partners
- ≡ Microgrid Functionality
- ≡ Designed to Sunspec and IEEE2030.5 Standards
- ≡ Market Services Ready (including VF FCAS)
- ≡ Options to connect to DNP3 or other protocols

EVO POWER FLEXIBLE API

- Third Party API Control
- Secure VPN or SCADA Control
- Sunspec standard API
- VPP ready

- COMMUNICATION
- AC POWER
- DC POWER
- Standard features
- Advanced Connectivity
- External devices



SPECIFICATIONS

100 kW / 241 kWh, 2 hr

INVERTER	
Rated AC Power	100 kW*
Rated Grid Voltage	400 VAC 3P 4W
Rated AC Current	145 A
Total Harmonic Distortion	≤ 3%
Nominal Grid Frequency	50 Hz
Peak Efficiency	98.5%
Power Factor	-1 to +1, continously adjustable
ENERGY STORAGE	
Usable AC Energy at BOL (Including AUX Power)	220 kWh
Nominal DC Energy at BOL	241 kWh
Voltage Range (Nominal Voltage)	672 ~ 864 VDC (768 VDC)
Chemistry	Lithium Iron Phosphate (LFP)
ENVIRONMENTAL	
Operating Temperature Range / Humidity Range	-20 °C ~ 50 °C* / 0 to 95% RH non condensing
IP Ratings	Battery Enclosure: IP55, Battery Modules IP66, HVAC and inverter Enclosure: IP54, Inverter IP65
COMPLIANCE	
Inverter Related Standards	AS/NZS4777.2:2020, IEC 62477-1:2012
Battery Related Standards	UL 9540A, UN 38.3, NFPA 855, IEC 62619:2022
DIMENSIONS & WEIGHTS	
System Dimensions (L x W x H)	1,350 x 1,350 x 2,300 mm
Weight (kg)	2,600 kg

Combinations of the same systems above can be controlled, maximum of 10 BESS in grid following mode and maximum of 5 BESS in grid forming mode.

All the AC power ratings exclude the auxiliary power. All auxiliary circuits are powered by the PCS when in backup mode.
Please contact EVO Power for the detailed Warranty Statement.
Specifications may be updated without notice, please contact EVO Power sales for the latest datasheets.
* Inverter derates above 45 °C
* Derated to 50kW for 4 hour applications



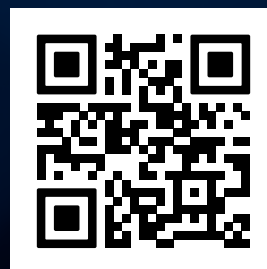
SCALABILITY OPTIONS

* Grid Connected Mode: 10 x FLEX & Back-up Mode: 5 x FLEX



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