

# AUSTRALIAN MADE ENERGY STORAGE

*Built to simplify the job*



PowerPlus Energy Pty Ltd  
[powerplus-energy.com.au](http://powerplus-energy.com.au)

Power ™



# Manufacturing locally means local support when it matters

PowerPlus engineer and manufacture Battery Energy Storage Systems (BESS), high-quality lithium batteries and energy storage enclosures.

Built in Melbourne, Australia, our products are known for their reliability, simplicity, scalability, and long service life, being a popular choice for domestic, commercial and other applications.



## Easy to Use

By prioritising simple design functions and user experience we provide options that are easy to understand and integrate into energy projects.

## Long Service Life

Our R&D focuses on delivering products that ensure longevity from system commissioning to end-of-life, making power accessible to all.

## Australian Manufacturing

Featured image showcases staff member building BESS components in our 9000m<sup>2</sup> 'giga-facility' for an off-grid, eco-resort, island project off the coast of South Australia.

## Reliable

We deliver solutions tailored to the energy needs of our customers. Our products blend trusted design, quality components and support ethical business practices.

# Stand-alone energy solutions designed to deliver reliable, ongoing power.

PowerPlus understands the importance for renewable solutions that safeguard your access to power. That's where our Australian-made all-in-one solutions come in. With built-in UPS functionality, you can ensure uninterrupted power, sustaining economic, social and environmental activities throughout day and night.



## How can PowerPlus support our renewable energy goals?

Provide Power Access Far and Remote

Keep The Power on During Blackouts

A True UPS with Ultimate Flexibility

Engineered for Australia's Conditions

Save on Energy Costs

Place Priority on Cyber Security

### PROVIDE POWER ACCESS FAR AND REMOTE

When the grid is either unavailable or it is too expensive to extend or upgrade, the Escape series can be paired with renewable sources, bringing power to remote areas, enhancing quality of life and economic opportunities.

### KEEP THE POWER ON DURING BLACKOUTS

When faced with unreliable grids, frequent blackouts and brownouts, PowerPlus' Energy storage systems ensure businesses, homes, and critical infrastructure have continuous access to power when the grid falls.

### Powered by LiFe4838P

PowerPlus BESS solutions are built with our latest lithium battery, LiFe4838P. Advanced diagnosing capabilities and 15% greater capacity ensures your stand-alone system is of the highest quality possible.



## Take a technical look at Escape20

### CONNECTION

|                   |                  |   |
|-------------------|------------------|---|
| Connection Styles | Off-Grid and UPS | Low Mean Time to Repair – improves serviceability, increases up-time. |
| Connection Type   | 3PH              |   |

### AC OUTPUT BESS

|                                    |                            |  |
|------------------------------------|----------------------------|--|
| Feed-out Type                      | 3PH                        | Single, dual and three phase available from indoor to extreme weather suited cabinets. |
| AC Voltage Output                  | 400V                       |  |
| AC Frequency                       | 50Hz                       |  |
| Real Power, Max Continuous         | 28.8kW                     |  |
| Real Power, Short Term Surge (15s) | 36kW                       |  |
| Apparent Power, Max Continuous     | 36kVA                      |  |
| Maximum Input Fault Current        | 10kA                       |  |
| Power Factor Output Range          | 0.8 Lagging to 0.8 Leading |  |
| AC Output to AC Input              | DC Bridge / Isolated       |  |

|                          |               |   |
|--------------------------|---------------|---|
| Island Mode (Online UPS) | 0ms           | Seamless operation gives additional protection to critical equipment. |
| Surge Protection         | Yes (Type II) |   |

### AC INPUT BESS

|                                |                |  |
|--------------------------------|----------------|--|
| AC Input                       | Generator/Grid | Hot swappable components – PowerPlus batteries and rack mounted PCE. System continues if one fails. Less time on site. |
| AC Voltage Input (Nominal)     | 400V           |  |
| AC Voltage Input Range         | 170V to 290V   |  |
| Feed-In Type                   | 3PH            |  |
| AC Frequency (Nominal)         | 50Hz           |  |
| AC Frequency Range             | 47Hz to 53Hz   |  |
| Real Power, Max Continuous     | 32.4kW         |  |
| Apparent Power, Max Continuous | 36kVA          |  |
| AC to AC Efficiency            | 96%            |  |
| Surge Protection               | Yes (Type II)  |  |

### A TRUE UPS WITH ULTIMATE FLEXIBILITY

Industry leading PCE technology provides true online UPS functionality with real separation between AC in and out as well as a phase rotation. Expansion packs allow DC solar chargers, split phase inputs and capacity expansion for greater autonomy.

### ENGINEERED FOR AUSTRALIA'S CONDITIONS

From deserts to tropical islands, from alpine to forests, the Escape series are available for indoor or outdoor locations. Adding HVAC allows for extreme conditions to be overcome easily and maintain optimum performance.



Mini-Grids



Scalable



Easy to Install



Remote Monitoring



On Grid UPS



On & Off-Grid



Energy Shifting

# Keep the power on with Escape20, an all-in-one energy storage solution.

The PowerPlus Escape20 battery energy storage system (BESS) is designed with versatility and scalability in mind. Featuring class leading conversion equipment, these BESS systems excel thanks to their longevity, reliability, and customisability.



Make a sustainable choice that keeps on giving.



LEARN MORE ABOUT OUR  
ESCAPE20 RANGE TODAY.  
[powerplus-energy.com.au/escape-20](https://powerplus-energy.com.au/escape-20)

## SAVE ON ENERGY COSTS

Reduce reliance on diesel generators and choose a sustainable alternative with greater efficiency. Store energy during off-peak hours and utilise it during peak demand periods.

## PLACE PRIORITY ON CYBER SECURITY

Using Australian servers with utility spec protocols as standard, along with inbuilt industry leading cyber security measures, the Escape series are the best choice for sensitive sites or concerned asset owners.



## DC BATTERY PERFORMANCE

|                             |                         |
|-----------------------------|-------------------------|
| Total Energy                | 53.2kWh                 |
| Internal Battery DC Voltage | 51.2V                   |
| Battery Chemistry           | Lithium ferro-phosphate |



## AC COUPLED SOLAR

|                       |                      |
|-----------------------|----------------------|
| MAX PV AC Output side | 60kW                 |
| Control               | Direct Communication |





Take the next step and discuss your energy storage project with our team.

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Visit our website to discover more!  
[powerplus-energy.com.au](https://powerplus-energy.com.au)

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