

## Powerbox & Powercube by Dyness



- Modular design for scalability-
- Australian CEC Certified-
- IP65 Rated-
- LV and HV options available-
- Expandable system-
- Natural cooling-
- Light weight and compact-



### The Spectrum Difference

The Spectrum Battery Systems by Dyness is a modular and expandable system that can store excess power produced from solar in daytime for use at night to increase energy self sufficiency and security, or be used at peak time to reduce electric charges in residential and commercial buildings.

Utilising the LiFePO<sub>4</sub> chemistry, one of the safest and longest lasting chemistries on the market, it is perfectly designed for residential and commercial applications. Proven to work in a number of energy storage systems including renewable energy integration with solar and wind, micro grid application, telecom applications, back up power and electric vehicle charging.

### Features And Advantages

#### Compact Size and Light Weight

Due to the high energy density of LiFePO<sub>4</sub> chemistry, Spectrum Battery Systems are ultra compact and light weight making it a discreet addition to any building as well as being easy to transport, handle and install.

#### High Power Output and Usable Energy Ratio

Spectrum Battery Systems have a high output power and usable energy ratio, the system can reach 1C continuously and 2C at peak to support critical requirements.

#### LiFePO<sub>4</sub> Battery Chemistry

One of the safest battery chemistries available, it also provides 95% usable energy and up to 10 years battery life (up to 6000 cycles).

#### Modular Design

Allows for easy extension and expansion of the systems, and can be paralleled to get bigger energy capacity with no limits. With such flexibility it makes an excellent solution for households of multiple sizes.

#### Easy Installation

Can be easily mounted on a wall thanks to its light weight and specially designed mounting unit that provides the battery with a strong support and seamless finish.

#### Extensive Certification

TUV, CE, EN62619, IEC 62040, UN38.3  
Australian CEC Certified



manufactured by  
**Dyness**  
ENERGY STORAGE SYSTEM



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### Spectrum Battery Systems Specifications

|                                       | Spectrum Powerbox   | Spectrum Powercube |
|---------------------------------------|---|--------------------|
| Battery Type                          | LiFePO4   | LiFePO4            |
| Battery Module                        | 1 - 4 Modules   | 5 - 9 Modules      |
| Battery Capacity [Ah]                 | 50 - 200  | 250 - 450          |
| Nominal Battery Energy [kWh]          | 2.4 - 9.6   | 12 - 21.6          |
| Max Output Power [kW]                 | 2.4 - 4.8   | 5.76               |
| Peak Output Current [Amp]             | 100, 1s - 200, 3s   | 768                |
| Net Weight [Kg]                       | 47 - 113  | 160 - 281          |
| Dimension [H*W*D, mm]                 | 928*555*210   | 1414*600*492       |
| Scalability [kWh]                     | Up to 3 units to parallel   | No limit           |
| Working Voltage (V)                   | 40.5 - 54   |                    |
| Operating Temp. Range [°C]            | -20 - 50  |                    |
| Calendar Life [Cycles] <sup>(1)</sup> | 6000  |                    |
| Nominal Voltage (V)                   | 48  |                    |
| Protection Level                      | IP65  |                    |
| Communication                         | CAN / RS485 / DRY CONTACT   |                    |
| Certification & Safety Standard       | TUV/ CE/EN62619/IEC62040/UN38.3/CEC Accredited  |                    |
| Compatible Inverters                  | Luxpower Goodwe Victron Imeon Solis Growatt GMDE Sofar Voltronic Deye More brands will be announced |                    |
| Warranty                              | 10 Years  |                    |
| Warranty Document Supplied            | Yes   |                    |
| Color                                 | White   |                    |
| Alarms                                | Overcharge Overdischarge Overcurrent Overtemperature Short Circuit                                  |                    |
| Pros                                  | Can be used in both off-grid and hybrid setups, compact design, modular expansion                   |                    |
| Monitoring & Protection               | Each module has BMS, breaker embedded in system   |                    |

(1) Test Conditions: 0.2C Charging/Discharge, @25°C, 80%DoD

Do you have high voltage requirements?

Contact SPB on 1300 001 772 or [sales@spb.net.au](mailto:sales@spb.net.au) for prices and availability.

