SIMPLE FLEXIBLE BATTERY STORAGE
LiFe SERIES

SMART LITHIUM FERRO PHOSPHATE BATTERY MODULES

Scalable Energy Storage

Lithium Ferro Phosphate LFP batteries provide high energy density, light weight, durable and reliable energy storage. With the added features of temperature tolerance and a high cycle life compared to Lead Acid batteries they are a cost effective alternative for solar and industrial applications. As most LFP batteries are backed by a 10 year warranty they are a popular solution.

While one of the advantages of LFP batteries is that they operate in the same voltage window as lead acid batteries and are managed with Constant Current/ Constant Voltage charging it is common that the battery will include a battery management system (BMS) to provide increased protection and cell balancing to extend the life of the battery.

Powerplus Energy has now developed a smart BMS that provides additional features including increased safety and protection, programable settings, individual string monitoring and the ability to connect multiple batteries in series to create higher voltage batteries.

The LiFe Series Batteries by Powerplus Energy when connected in series includes a Master BMS for control of circuit protection devices and a data interface for web monitoring and a Canbus interface to third party products.

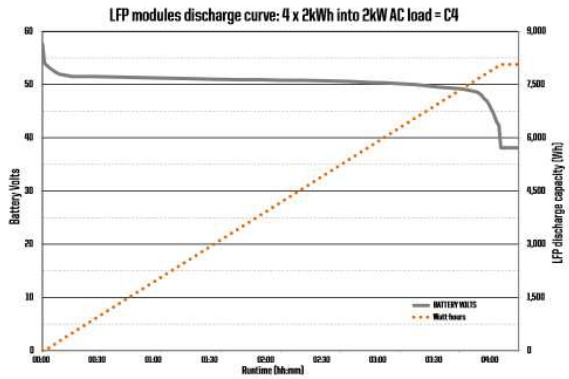
The LiFe Series includes a 120v model for direct connection to the Selectronics Inverters. Voltage options up to 1000V can be configured for a wide range of applications.

PowerPlus Energy

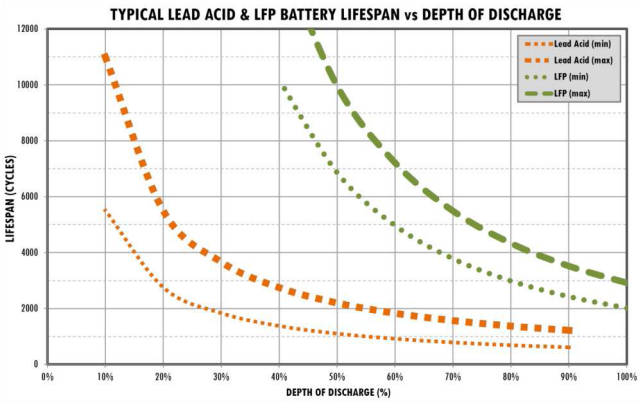
SPECIFICATIONS

Nominal Voltage DC	24V	48V	120V
Nominal Capacity	3.3kWh/127ah	3.3kWh/63.5ah	3.3kWh/25.6ah
Maximum Current	60A (Limited by circuit breaker)		
Charge/Discharge cycles	2700@100% DoD, 25°C	5000 @ 75% DoD, 25°C	10,000 @ 50% DoD 25°C
Operating Temperature	Charge 0° to 55°C Discharge -20° to 60°C		
Operating Humidity (non condensing)	85%		
IP Rating	IP40		
Battery Case Dimensions (mm)	620D x 430W x 88H		
Battery Mounting	Standard 19" Mounting		
Mounting Options	Horizontal or Vertical		
Terminal Connection	Amphenol Surlok		
Weight Module	39kg		
BMS Over Volt cut off (prog)	29.2V	58V	140V
BMS Under Volt cut off (prog)	20V	40V	100V
BMS Short Circuit cut off (prog)	Programable		
BMS Over Temp cut off	65°C		
Charge	C1 Max Recommend C2		
Self Discharge	14% per annum		
Circuit Breaker	2-pole 63Amp 500W		
Lithium Composition	Lithium Ferro Phosphate (LiFePO4 or LFP)		

- Australian designed and engineered
- No control cables required
- 96-98% charge efficiency
- 10,000 cycles in off grid solar
- Flexible installation options
- 1/3 the weight and size of lead acid batteries
- Parallel additional batteries as required
- 24, and 48 / 120V - 1000V Q3 release
- 10 year warranty
- Full recharge in 1-2 hours



Tests reflect PV energy storage usage. Data is based on Australian QA test programming. Results may vary with inverter efficiency and loom loss. Test load at 240V AC



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