

LiFe**PO₄D**

Rapidly Deployable Stand-Alone Power System

The energy market transition is fast taking place in Australia as it is globally. The old ways of doing things are no longer viable in the face of climate change, rising costs and threats to energy security.

Combining technologies in new and innovative manners, hybrid energy systems are gaining increased prominence for their flexibility, durability and scalability.

An exciting new hybrid energy product is the **LiFePO₄D**, which is designed and manufactured here in Australia by Hybrid Energy Systems Australia (HESA).

Using proven components from leading manufacturers in battery-inverter design (Selectronic and Schneider) at the heart of the system, the **LiFePO₄D** offers a customisable and scalable solution in a compact, easily transportable / rapidly deployable and secure package. With a small footprint, the **LiFePO₄D** can be set up by one person, and start generating electricity in less than 60 mins.

A key feature is the ability by the **LiFePO₄D** to track the sun and automatically set itself daily to the optimum angle for maximum solar PV generation. The simplicity of setup and operation is important as it removes the need for expensive and time-consuming civil and ancillary works.

Its flexibility makes the **LiFePO₄D** the ideal solution for a wide range of applications, including but not limited to:

- Electricity distribution networks
- Telecommunications
- Emergency response
- Off-grid / fringe-of-grid installations
- Farming and irrigation
- Hire and rental
- Events

In the case of electricity distribution networks, the **LiFePO₄D** may be deployed as Stand-Alone Power Systems (SAPS/SPS) to increase network reliability by replacing SWER lines that are costly and vulnerable to extreme weather events and bushfires, traffic accidents and network loading.

For more information regarding the **LiFePO₄D**, please contact your local Tutt Bryant Sales Representative or HESA's Product Development Manager, David Belcher, at david@hybridenergysystems.com.au



LiFePO₄D - Building A Better Energy Future



Hybrid Energy Systems Australia

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LiFe

PO₄D

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LiFePO₄D Rapidly Deployable Stand-Alone Power System

	Single Phase		Three Phase	
	Min	Max	Min	Max
DC Coupled Solution				
Continuous Output Power (kW)*	6.8	27.2	20.4	40.8
Output Power - 30min (kW)*	8.5	34	25.5	51
Output Power - 60sec (kW)*	12	48	36	72
Output Voltage (V)	240		400-415	
Output Current (A)*	30	120	90	180
Solar Charge Controller Output (kW)	6	Customisable and Scalable		
Solar Array (kWp)	6.7			
Battery Storage (kWh)	7.4			
AC Coupled Solution				
Continuous Output Power from Batteries (kW)*	3.5	80	10.5	240
Output Power from Batteries - 30min (kW)*	5.25	120	15.75	360
Output Power from Batteries - 60sec (kW)*	6	140	18	420
Max Total Output Power to Load (kW)**	25.5	360	76.5	1080
Output Voltage (V)	240		400-415	
Continuous Output Current from Batteries (A)*	16	380	48	1140
Solar Array (kWp)	6.7	160**	6.7	480**
Battery Storage (kWh)	Customisable and Scalable			
Back-Up Generator (kVA)	22 - Scalable			
Back-Up Generator Fuel Storage Capacity (L)	Customisable			
Dimensions (mm)	H2691 x W2438 x L6058			

* Ratings at 25 degrees Celsius. De-Ratings must be applied for higher temperatures.

** Ratings are calculated when using Selectronic Certified Solar Inverters and SP Pro internal contactors. Larger outputs could be achieved when using external contactors. Solar array capacity can be achieved when using additional ground or building mount solar.

Additional solar only LiFePO₄D's can be purchased separately.



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