LiFe Premium Series

Simple in nature, our premium LiFe Series elevates any project looking for extended battery life, and premium charging and discharging capabilities.

AC and DC coupled system friendly our premium Australian lithium batteries are equipped with an in-built BMS allowing them to easily integrate into many environments in a wide range of applications.

- Fast Charging
- Extensive Inverter Compatibility
- Infinitely Scalable
- Master BMS in each Battery

	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Nominal DC Voltage	25.6V	51.2V		128.0V
Operational Voltage Window	20V to 28.8V	40V to 57.6V		(110V) / 123.2V to 144V
Nominal Capacity	3.3KWh (3.277) / 128Ah	3.3KWh (3.277) / 64Ah	2.2kWh (2.211) / 43Ah	3.3KWh (3.277) / 25.6Ah
Usable Capacity	3.3kWh (3.277)	3.3kWh (3.277)	2.2kWh (2.211)	2.97kWh (2.95)
Recommended Usable Capacity	2.64kWh	2.64kWh	1.76kWh	2.64kWh
Depth of Discharge	Up to 100%			Up to 90%
Recommended Depth of Discharge	80% or less			
Continuous Discharge C-Rate	0.5C (C2)	1C (C1)		
Continuous Discharge Current	63A	63A	43A	25A
Continuous Discharge Power	1.61kW	3.22kW	2.20kW	3.20kW
Maximum Discharge (Limited by K-Curve Circuit Breaker) (*Refer to Install Manual for circuit breaker characteristics)	63A* (1.61kW)	63A* (3.22kW)	63A* (3.22kW)	25A* (3.20kW)
Maximum Charge Current	63A	63A	63A	25A
Warrantable Charge Current	63A	32A	21.5A	12.8A
Warrantable Charge Power	1.61kW	1.63kW	1.10kW	1.63kW
Prospective Fault Current (1ms)	250A			110A
Circuit Breaker (K-Curve)	2-Pole 63A 360VDC			2-Pole 25A 360VDC
Lithium Composition	Lithium Ferro Phosphate (LiFeP04 or LFP)			
Operating Temperature Range	Charge: 0° to 55°C / Discharge -20° to 60°C			
Ideal Operating Temperature Range	0 to 45°C			
Operating Humidity	85% Non-condensating			
BMS Over-Volt Cell Level Protection	3.9V/Cell			3.7V/Cell Average
BMS Under-Volt Cell Level Protection	2.0V/Cell			Soft Shut down 3.08V/ Cell Hard Shut down 2.75V/ Cell
BMS Over-Temp Cut Off	65°C			55°C Charge 60°C Discharge
BMS Max Trip Current	200A			100A
Self Discharge	14% Per Annum			
Altitude	< 2000m (seek manufacturers advice above 2000m)			

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Specifications correct at time of publication and are subject to change. Refer to website for latest information.

	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Battery Mounting Options	Standard 19" Rack Mount / Horizontal / Vertical			
Terminal Connections	Amphenol Surlok 100A Non-keyed			
IP Rating	IP40			
Efficiency	>96%			
Cooling	Natural convection			
Parallel Connection	Unlimited - Refer to Manufacturer			
Series Connection	Not Permitted			
Alarm Output	Normally Closed. Volt-free, 200mA 60V Max			
Communications	Alarm Output			Battery Performance data via PowerLink Data device +Alarm output
Module Weight	41kg		30kg	41kg
Battery Dimensions	635mm D x 434mm W x 88mm H		420mm D x 434mm W x 88mm H	635mm D x 434mm W x 88mm H
Arc Flash Incident Energy IEm in Cal/cm2 (45cm)	0.25	0.36	0.36	0.54
Arc Flash Incident Energy AFB in cm	20.45	24.45	24.45	30.19
Certifications	Pending IEC: 62619:2017, UN38.3, EMC	Pending IEC: 62619:2017, UN38.3, EMC	Pending IEC: 62619:2017, UN38.3, EMC	Pending IEC: 62619:2017, UN38.3, EMC
Warranty	10 Years (conditions apply)			

Connected PCE Programming Requirements

Shutdown DC Voltage @0.5C	24.0V	48.0V		123.75V
Shutdown Voltage Recommended	25.1V	50.2V		125.5V
Recovery / Restart Voltage	26V	52V		130V
Continuous Charge Voltage	28.8V	57.6V		142V
Continuous Charge Transition	Battery is considered full after battery is absorbing less than 1% of maximum charge current after being held at specified charge voltage for 30minutes minimum.			
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	57.6V		142V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V		140V
Charge Current	63A	32A	21.5A	12.8A
Peukert Exponent	1.02			
Shutdown SoC Recommended	20%			
Calibration to 100%	Every 7 days or more frequent where possible. (Ensures cell balancing is performed and keeps external SoC counter more accurate)			

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