

# LiFe Premium P Series Lithium Battery



- Maintenance Free
- Fast Charging
- High Efficiency
- Flexible Capacity Design
- Multiple Installation Options
- Free Warranty Returns
- Safe Lithium Option
- Master BMS in each Battery
- Compatible AC & DC Coupled Systems
- High Temperature Tolerance
- Mechanically Robust Cylindrical Cells
- Manufactured in Australia
- Local Support by the Manufacturer
- Direct Replacement for Lead Acid in most applications
- Increased Storage Efficiency

	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Nominal DC Voltage	25.6V	51.2V		128.0V
Nominal Capacity	3.3kWhr (3.277) / 128Ah	3.3kWh (3.277) / 64Ah	2.2kWh (2,211) / 43Ah	3.3kWh (3.277) / 25.6Ah
Continuous Discharge Current	63A	63A	43A	25A
Continuous Charge Current	63A	32A	21.5A	12.8A
Maximum Current	63A (Limited by circuit breaker)			25A (Limited by circuit breaker)
Continuous Discharge C-Rate	0.5C (C2)	1C (C1)		
Battery Fault Current (1ms)	250A			110A
Arc Flash Incident Energy IEm in Cal/cm (45cm)	0.25	0.36	0.36	0.54
Arc Flash Incident Energy AFB in cm2	20.45	24.45	24.45	30.19
Charge/Discharge Cycles (Approx.)	2700@100% DoD / 5000@75% DoD / 10,000@50% DoD @25°C op. temp.			
Operating Temperature Range	Charge: 0° to 55°C / Discharge -20° to 60°C			
Operating Humidity (Non condensating)	85%			
Altitude	Below 2000m			
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
Battery Mounting Options	Standard 19" Rack Mount / Horizontal / Vertical			



Residential



Commercial



Industrial



Utilities and  
Telecom

	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Terminal Connections	Amphenol Surlok 100A Non Keyed			
Module Weight	41kg		30kg	41kg
Operational Voltage Window	20V to 29.2V	40V to 58.4V	40V to 58.4V	100V to 146V
BMS Over-Volt Cell Level Protection	3.9V/Cell			
BMS Under-Volt Cell Level Protection	2.0V/Cell			
BMS Over-Temp Cut Off	65°C			
Max Trip Current	200A			
Circuit Breaker (k Curve)	2-Pole 63A 360VDC			2-Pole 25A 360VDC
Self Discharge	14% Per Annum			
Lithium Composition	Lithium Ferro Phosphate (LiFePO4 or LFP)			
IP Rating	IP40			
Efficiency	>96%			
Expected Life @25°C	Greater than 10 years when used as per warranty terms			
Cooling	Natural convection			
Parallel Connection	Unlimited - Refer Manufacturer			
Serial Connection	N/A			
Alarm Output	Normally closed, Volt free, 1A maximum			
Communications	N/A - See 'PS' range			Battery Performance data via PowerLink Data device.
Certifications	Pending IEC: 62619:2017, UN38.3, EMC	IEC: 62619:2017, UN38.3, EMC	Pending IEC: 62619:2017, UN38.3, EMC	Pending IEC: 62619:2017, UN38.3, EMC

Connected PCE Programming requirements				
	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Shut Down SoC (Recommended)	20%			
DC Volts Shut Down 0% Load	24.0V		48.0V	120.0V
DC Volts Shut Down 100% Load	23.0V		46.0V	115.0V
Recovery / Restart Voltage	26V		52V	130V
Continuous Charge Voltage (Per Warranty)	28.8V		57.6V	142V
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
Peukert Exponent	1.02			
100% recharge (Recommended)	7 to 14 days to keep External SoC counter accurate			
Continuous Discharge Current	63A	63A	43A	25A
Continuous Charge Current	63A	32A	21.5A	12.8A
Cable Size	Refer relevant manual or cable sizing standard			
Warranty	Refer Warranty document for warranty duration, installation, usage and maintenance requirements			
Note	In our efforts towards constant product enhancement this specification is subject to change at anytime without notice			