

LiFe Premium P Series Lithium Battery



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

	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
Nominal DC Voltage	25.6V	51.2V		128.0V
Operational Voltage Window	20V to 29.2V	40V to 58.4V	40V to 58.4V	(110V) / 123.2V to 146V
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 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 (LiFePO4 or LFP)			
Operating Temperature Range	Charge: 0° to 55°C / Discharge -20° to 60°C			
Ideal Operating Temperature Range	0 to 45°C			



Residential



Commercial



Industrial



Utilities and Telecom



	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
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)			
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 Manufacturer			
Serial Connection	Not Permitted			
Alarm Output	Normally closed, Volt free, 1A maximum			
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/cm ² (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	Pending IEC: 62619:2017, UN38.3, EMC
Terminal Connections	Amphenol Surlok 100A Non Keyed			
Note:	This specification is subject to change at anytime without notice			
Warranty	10 Years (Conditions apply)			
Connected PCE Programming Requirements				
	LiFe2433P	LiFe4833P	LiFe4822P	LiFe12033P
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 & keeps external SoC counter more accurate)			
Note	These charging requirements are subject to change at anytime without notice			