



POATLFeLi-48150F-TBT

48 Volt 150 AH Lithium Battery



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Key Features

- Lithium iron Phosphate (LiFePO₄) battery.
- Extensive Modbus communication.
- Exceptional overload protection and logging.
- State of the art, multi-layer short circuit protection and logging. (Very low Bolted Fault Current.)
- Communicates directly with the SC300 (Minimum V2 hardware, 1.18 firmware.)
- Parallel battery bank circulating current control.
- Cycle Life – 5000 cycles to 80% DOD – 3500cycles at 100% DOD.
- Up to 55-degree operating temperature.
- BMS controlled re-charge. Fast, 5-hour full recharge. (With correct charging.)
- Approximately 1/3 of the weight of the equivalent capacity Lead Acid battery.
- About ½ the size of conventional Lead Acid Batteries.
- Better suited to deep discharging and cyclic applications than lead acid batteries.
- Safety Report with testing results available.
- 5-year Power On Australia Exclusive Warranty

What's in the box

- Lead Sets
- Connect & Site Test Procedures, includes Checking Breaker Sizing
- Batching Details and Latest Firmware

Options

- Circuit Breaker Lockout mechanism.
- Comms Repeater. (Required for communication with over 20 batteries)
- Suitable 19" Racks (600 x 600 foot print racks)

Support

We offer a range of design, installation and maintenance services to get the most out of your new equipment. Fast deployment, 24/7 nationwide support.

Authorised DC Integrator



Applications for:

Mining • Rail • Industrial • Manufacturing • Utilities

Lithium-Ion Battery Benefits

Safety benefits

- Lithium-Ion Phosphate (LiFePO4) chemistry is stable and safe.
- Battery Management System (BMS) actively monitors temperature, individual cell, and overall battery performance exclusively using an Eaton SC300

Installation benefits

- Reduced weight.
- Reduced size.
- Fits into standard 19" rack (600 x 600 foot print racks)

Performance benefits

- Faster recharge capabilities.
- Greater round trip (Discharge, recharge) efficiency. (Approximately 10 to 15% better than lead acid.)
- Greater cycle life.
- Extensive battery status data. Allows for remote diagnostics.

Power On Australia has over 20 years' experience designing and implementing tailored, long lasting power quality and power management solutions. Servicing a broad range of industries, no project or environment is too difficult for us – from designing, installing and maintaining complex UPS power solutions on remote mining sites to managing critical power backup solutions in major metropolitan hospitals.

Power On Australia is also a trusted provider to the Australian Department of Defence. We have been awarded Defence Industry Security Program (DISP) Membership, a NATO Commercial and Government Entity Ranking and Defence Export Control Accreditation (DCRN), confirming that we operate to the highest level of quality and service.



More information?

Contact the team at Power On Australia on 1300 66 24 35 or sales@poweronaustralia.com.au

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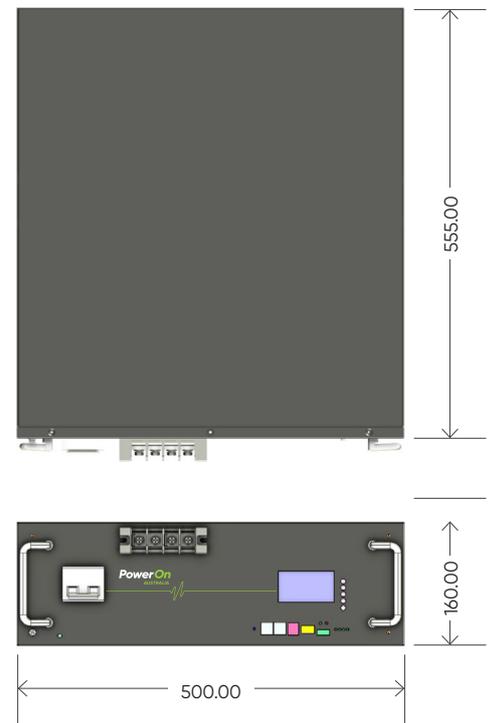


Picture for illustration purpose only

Specifications

Rated Voltage (Nominal)	51.2V	
Rated Voltage (Peak)	57.6V	
Disconnect Voltage (Typical)	43.2V	
Nominal Capacity	2.70V/cell (C10)	150.0 Ah
Dimensions	Length	555 ±2mm
	Width	500 ±2mm
	Total Height	160 ±2mm
Approx. Weight	Approx. 68 kg	
Terminal	Shielded Terminal Block	
Container Material	Lacquer Steel Case (UL94-V0)	
Rated Capacity (25oC)	150.0 Ah	(20hr, 7.5A, 2.70V/cell)
	150.0 Ah	(10hr, 15.0A, 2.70V/cell)
	150.0 Ah	(5hr, 30.0A, 2.70V/cell)
Max Charge/Discharge Current	Standalone	125A (max)
Internal Resistance (25oC)	Parallel	N/A
Operating Temp. Range	Discharge	-15 ~ +60oC
	Charge	-0 ~ +55oC
	Storage	-15 ~ +60oC
Nominal Operating Temp. Range	25 ±5oC	
Cycle Use (Voltage)	Please refer to relevant installation/operation manual	
Standby Use (Voltage)	Please refer to relevant installation/operation manual	
Parallel Connection	Up to 63P. Contact Power On Australia for any application >10P in parallel	
Self-Discharge	Eaton PWTLFeLi series batteries may be stored for up to 1 year at 25oC and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Cycle Life	>5000 cycles at 80% DoD	
	>3500 cycles at 100% DoD	
Design Life	>20 years	

Layout



Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	1.5h*	3h	5h	7.5h	10h
43.2Vdc	100.0	50.0	30.0	20.0	15.0

Specification subject to change without prior notice.

* 1.5hr discharge rate may not be appropriate for all applications. Discuss with Power On Australia.

