

LiNET4835

Power⁺

The LiNET4835 battery is a specific communications energy storage solution designed for telecommunications applications offering compact reliability in commercial settings.

Suitable as a genuine replacement for lead-acid batteries, and can be installed in new setups with little to no changes to existing cabinets and battery charging gear, with the addition of MODBUS communications.



Nominal DC Voltage ¹	51.2V
Operational Voltage Window ¹	48V to 58.4V
Nominal Capacity	3.5kWh (69Ah)
Usable Capacity ²	3.5kWh (69Ah)
Recommended Usable Capacity @ 80% Depth of Discharge	2.8kWh (55Ah)
Depth of Discharge	Up to 100%
Recommended Depth of Discharge	80% or less
Maximum Continuous Discharge C-Rate	0.36C
Maximum Continuous Discharge Current	25A (1.42kW)
Maximum Discharge Current (Limited by K-Curve Circuit Breaker)	25A (1.42kW)
Maximum Charge Current	25A (1.42kW)
Nominal Charge Current	25A (1.42kW)
Battery Fault Current	250A
Circuit Breaker (K-Curve)	2-Pole 25A 360VDC
Lithium Composition	Lithium Ferro Phosphate (LiFePO4 or LFP)
Operating Temperature Range	Charge: 4° to 51°C / Discharge -6° to 56°C
Recommended Operating Temperature Range	15° to 35°C
Operating Humidity	Up to 85% – non-condensing
BMS Under/Over-Volt Cell Level Protection	2.5V / 3.65V
BMS Over-Temp Cut Off	55°C
Self Discharge	<14% Per Annum
Altitude	< 2000m (seek advice from PowerPlus Energy above 2000m)
Battery Mounting Options	Standard 19" Rack Mount, Refer to instruction manual
Terminal Connections	Amphenol Surlok 100A non-keyed
IP Rating	IP40
Efficiency	>96%
Cooling	Natural Convection
Parallel Connection	Internal Busbar: Max of 4 Batteries per LiNETCOM or LiNETHUB External Busbar: Unlimited - Refer to Instruction Manual
Series Connection	Not Permitted
Alarm Output	Normally Closed. Volt-free, 100mA 60V Max

1. Voltages are specified at the battery terminals.

2. The usable capacity is measured under specific conditions of 0.2C.

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



Communications	MODBUS TCP/IP via LiNETCOM or Alarm output
Module Weight	33.5kg
Battery Dimensions	515mm D x 443mm W x 86mm H
Certifications (Battery Cells)	IEC 62619:2022 UL 1642
Warranty	10 Years (conditions apply)

Connected PCE Programming Requirements

Shutdown DC Voltage (No Load)	50V
Shutdown DC Voltage (0.36C)	48V
Recovery / Restart Voltage	52V
Continuous Charge Voltage	56.4V
Continuous Charge Transition	Battery is considered full after battery is absorbing less than 0.5% of maximum charge current after being held at specified charge voltage for 30 minutes minimum.
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	56.4V
Float Voltage Standby (Long Term Float) (Example UPS Application)	55.9V
Charge Current	25A
Peukert Exponent	1.02
Shutdown SoC Recommended	20%
Calibration to 100% - Cyclic Application	Every 7 days or more frequent where possible. (Ensures cell balancing is performed and keeps external SoC counter more accurate)