Te-Li-Com® Series: Macro Hybrid Base Station

High power, modular backup solutions for Telecom applications

Ideal for base station backup power and other long duration discharge applications, LiiON's Macro Hybrid Base Station features rechargeable lithium Ion batteries that offer a high-power, longer-lasting replacement for lead acid batteries. Based on proven lithium technologies, the Macro Hybrid Base Station battery system is constructed with 20 Ah prismatic cells, manufactured with lithium ion technology. The solution's integrated cell balancing and protection system, long cycle and calendar life, and superior abuse tolerance deliver ultimate protection while reducing total cost of ownership (TCO).

Benefits At A Glance

- Manufactured with patented Nanophosphate® lithium technology
- Delivers high power for long durations at up to 12C rates
- Provides ultimate safety with superior abuse tolerance compared to lead acid and other lithium chemistries
- Offers up to 3x the lifespan of alternate batteries through superior float/cycle/calendar life
- Easy to ship and deploy, at less than half the weight of lead acid batteries
- Gain extensive control and monitoring capabilities with integrated BMS for module balancing and safety
- Remote monitoring includes state of charge and health, number of cycles, and more
- Scalability of solution enables batteries to be combined in parallel for higher Amp-hr capacities
- Work with standard lead acid rectifiers for easy charging

Safety

Selecting a partner who truly understands how to design and manufacture a safe lithium battery is a difficult — yet critical —task in the rapidly evolving lithium battery marketplace. At LiiON, our batteries include multiple layers of protection employed at the chemistry, cell and pack, and system levels. Our choice of the Iron Phosphate battery chemistry is designed to achieve an energy storage solution with superior safety and abuse tolerance compared to other metal oxide lithium ion chemistries.

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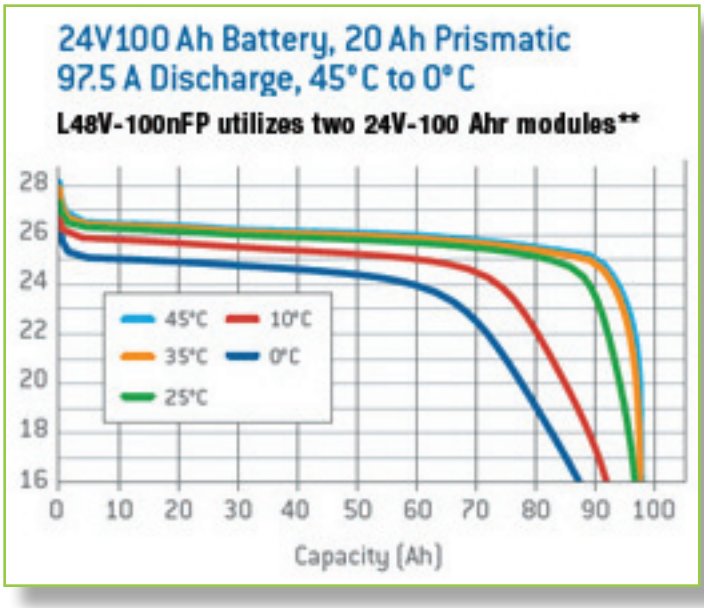
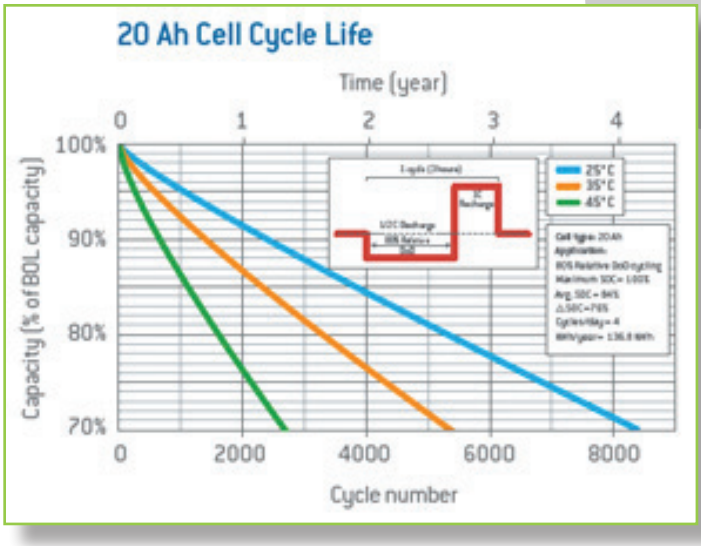
Specifications	
Nominal Voltage	52.8V
Max Voltage (charge)	57.6V
Minimum Voltage	32.0V
Float Voltage	54.5V
Capacity	100Ahr
Nominal Energy	5280Whr
Continuous Discharge Current*	100A
Internal Resistance	15m Ω
Charge Temp Range	0 to 122F (-18 to 60 C)
Discharge Temp Range	-22 to 140F (-30 to 60 C)
Storage Temp	-40 to 140 °F (-40 to 60 °C)
Self -Discharge	<2% per month
Standard Charging	54.5V
Cont. Charging Current	100 A max charge
Cycle Life, 80% DOD (to 70% Rated Capacity)	8000 cycles at 25C 2500 cycles at 45C
Design Life (to 80% Rated Capacity)	15 years at 23 °C

** Consult LiION for duty cycle capabilities*

Physical Dimensions**	
Length	20.12in / 511mm
Width	18.8in / 478mm
Height (Excl. Term)	12.25in / 312mm
Weight	159.5 lb/72.5 kg
Termination	Anderson Connector
Case Material	Powder-coated, Steel case
Water/dust resistance	Inside Telecom Enclosure
Shock/Vibration	IEC62133, DIN VG96 924
Certifications	UL1642(cells), UL2054
Shipping**	UN3480, Class 9

*** Macro Hybrid Base Station modules are UN 3480, class 9 compliant and ship separate from enclosure*





"We are lithium professionals."

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