



# LI12V60 Lithium Ion Module

## Technical Specification



- LiFePo4 Lithium-Nanophosphate™ technology
- Nominal voltage: 12 V
- Capacity: 6 Ah
- 6,3 mm connectors
- Low weight 0,95 kg
- Dimensions 151 x 65.5 x 101 mm
- Wide temperature range: -30°C to +60°C

LyconSys's lithium ion rechargeable LI12V60 modules are based on proven A123 System's ANR26650M1 cells. The batteries offer very high power, long cycle and calendar life, and have superior abuse tolerance due to the use of patented Nanophosphate™ technology. LI12V60 modules are drop-in replacements for 12V7 lead acid batteries with an integrated on-board cell balancing system that facilitates long battery life.

### Highlights

- Direct replacement for 12V7 VRLA batteries (same size/charger)
- Delivers several times more power while maintaining high capacity
- Superior abuse tolerance compared to lead acid and other lithium ion batteries
- Superior float/cycle/calendar life, even at elevated temps and fast discharges
- Less than 1/4th the weight of lead acid batteries
- Maintenance Free

### Electrical specification

Voltage	12 V
Capacity (to specified voltage)	
5 hour rate (10.5 V)	0.88 A/4.36 Ah
1 hour rate (9.6 V)	4.32 A/4.32 Ah
0.5 hour rate (9.6 V)	8.60 A/4.30 Ah
15 minute rate (9.6 V)	17.20 A/4.30 Ah
10 minute rate (9.6 V)	25.80 A/4.30 Ah
8 minute rate (9.6 V)	32.00 A/4.26 Ah
5 minute rate (9.6 V)	49.60 A/4.16 Ah
3 minute rate (9.6 V)	80.00 A/4.00 Ah
Internal resistance	20 mOhms
Max discharge current	80 A
Max pulse discharge current	120 A (<5 sec.)
Short circuit current	internal short circuit fuse protection
Self discharge	<2% per month

### Charging

Standard voltage	13.6V to 15.0 V
Float voltage	13.6V to 14.0 V
Charge current	10 A max.

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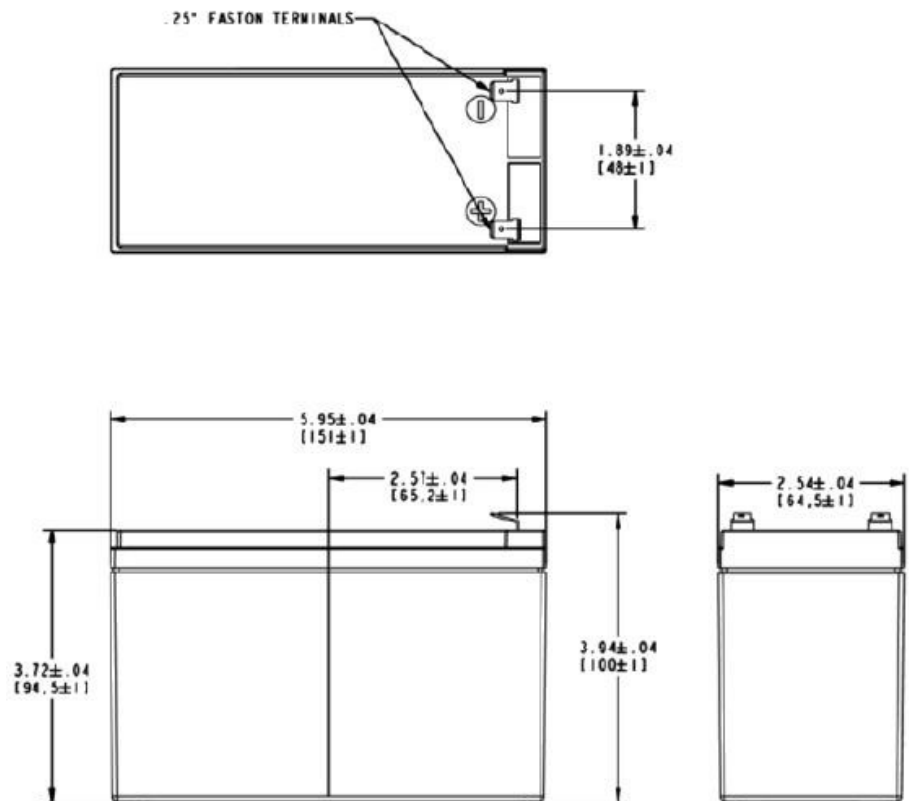
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### Mechanical Data

Environmental conditions		
discharge temperature		-30°C to +60°C
charge temperature		-30°C to +60°C
storage temperature		-50°C to +60°C
Physical dimensions	(L x W x H)	152 mm x 65.5 mm x 101 mm
Weight		950 g
Terminal		Amp FASTON 250
Housing		ABS



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### Applications

- Uninterruptible Power Supply (UPS)
- Telecommunication
- Fire alarm and security systems
- Medical appliance
- Solar applications
- Electronic test equipment
- Electronic measuring devices
- Geophysical devices
- Marine equipment – Railway