

# Energy Qb 48V/75Ah LFP Battery

## Flexible & powerful backup solution for DC telecom



Exicom's Energy Qb 48V/75Ah LFP is an advanced battery solution to meet the most demanding backup power needs of a telecom network. Its' safe LFP chemistry allows high cycle life and calendar life of +5 years while its modular architecture allows you to expand as you grow. Ability to work at relatively higher temperatures cuts energy costs due to air conditioning significantly while you save on very low maintenance requirements as well. We have variety of battery system designs integrated with our power systems to suit your exact application – urban, poor grid, renewable or off grid. Come! Join the future!

### Key Features:

- High energy density, compact modular Li-ion batteries
- Flexible configuration: 3.6kWh to 28.8kWh battery systems for BTS sites
- Batteries can be used with existing rectifiers with minimal setting changes
- High cycle life of 3,000 cycles and life of +5 years
- Safety under abnormal conditions
- Easy maintenance and hot swappable (i.e. no shutdown required for expansion)
- Central battery management system and advanced Android based mobile app for user interface

### Applications:

- Telecom: Base station sites, LTE/Wi-Max, hub sites, renewable / hybrid / poor grid sites
- Smart cities: smart poles, surveillance
- Power utilities: Control & protection and communication equipment
- Railways: Signalling, communication equipment, control & protection

# Energy Qb 48V/75Ah - Technical Specifications



<b>General</b>	<b>Module</b>	75Ah, LFP chemistry
	<b>Rated energy</b>	3600Wh (@25 °C, 0.5C charge / 0.5C discharge)
	<b>Configuration</b>	75Ah cells in 1P15S configuration
	<b>Self-discharge (power ON)</b>	6 months at 25 °C
	<b>Storage time (power OFF)</b>	12 months at 25 °C
	<b>Specific energy</b>	75Wh/kg
	<b>Volumetric energy density</b>	85 Wh/l
	<b>Dimensions (w x d x h):</b>	482 mm x 400 mm x 222 mm
	<b>Weight</b>	46 kg
<b>Nominal characteristics</b>	<b>Voltage</b>	42 - 54Vdc (operating); 48V (nominal)
	<b>Nominal discharge current</b>	37.5A
	<b>Peak discharge current</b>	90A for 8 sec
	<b>Nominal charge current</b>	37.5A
	<b>Short circuit current</b>	110A for 500 uSec
	<b>Protection mode charge current</b>	10A
	<b>Peak charge current</b>	80A for 4 sec
<b>Cycle Life</b>	3,000 cycles @35°C, 0.5C charge / 0.5C discharge at 80% DoD	
<b>Others</b>	<b>Interface</b>	RS485 for communication to CBMS or SMPS power plant
	<b>Indications</b>	SoC level / run / alarm indications on front panel
	<b>Protections &amp; alarms</b>	Over/under-voltage, over-current, over/under-temperature, power plant communication fail, temperature sensor disconnect, power device failure
	<b>Applicable standards</b>	Transportation - UN 38.3, Safety & EMI - IEC 60950; EN 61000, Chapter 6-2 and 6-3
<b>Environmental</b>	<b>Operating temperature</b>	0 to 55°C for charge; -10 to 55°C for discharge
	<b>Maximum relative humidity</b>	95%
	<b>Maximum altitude</b>	2000m above sea level
<b>Ordering Info</b>	Part code: HE920123 Part description: Energy Qb 48V/75Ah	

Specifications are subject to change without notice

Web: [www.exicom-ps.com](http://www.exicom-ps.com)

## Mobility Solutions



## DC Telecom Solutions



## ESS Solutions



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