

Energy Qb 48V/100Ah LFP Battery

Flexible & powerful backup solution for DC telecom



Exicom's Energy Qb 48V/100Ah 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: 4.8kWh to 38.4kWh 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/100Ah - Technical Specifications



General	Module	100Ah, LFP chemistry
	Rated energy	4800Wh (@25 °C, 0.5C charge / 1C discharge)
	Configuration	100Ah cells in 1P15S configuration
	Self-discharge (power ON)	6 months at 25 degree Celsius
	Storage time (power OFF)	12 months at 25 degree Celsius
	Specific energy	114 Wh/Kg
	Volumetric energy density	124 Wh/l
	Dimensions (w x d x h):	482 x 350 x 222 mm
	Weight	46 Kg
Nominal characteristics	Voltage	42 - 54Vdc (operating); 48V (nominal)
	Nominal discharge current	50A
	Peak discharge current	150A for 8 sec
	Nominal charge current	50A
	Short circuit current	250A for 500µSec
	Protection mode charge current	10A
	Peak charge current	125A for 4 sec
	Cycle Life	3,000 cycles @35°C, 0.5C charge / 0.8C discharge at 80% DoD
Others	Interface	RS485 for communication to CBMS or SMPS power plant
	Indications	SoC level / run / alarm indications on front panel
	Protections & alarms	Over/under-voltage, over-current, over/under-temperature, power plant communication fail, temperature sensor disconnect, power device failure
	Applicable standards	Transportation - UN 38.3, Safety & EMI - IEC 60950; EN 61000, Chapter 6-2 and 6-3
Environmental	Operating temperature	0 to 55°C for charge; -10 to 55°C for discharge
	Maximum relative humidity	95%
	Maximum altitude	2000m above sea level
Ordering Info		Part code: HE920153 Part description: Energy Qb (H) 48V/100Ah

Specifications are subject to change without notice

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