KILOVAULT

KiloVault® CHLX™ Series

Lithium Technology that Works in the Freezing Cold

NEW FOR 2020

Cold-Rated, Smarter, Safer, Longer-Lasting Energy Storage

CHLX Series lithium batteries include all the advantages of the HLX Series with the added benefit of cold weather operation. Internal heating technology allows the battery to continue charging, even when the ambient temperature is well below zero.

Take Charge Even When Its Freezing

When the ambient temperature is below 32°F / 0˚C, the charging current will flow to heating film to warm up the battery first, and switch to normal charging when the battery internal temperature raises up to 32°F / 0˚C.

The Safer Lithium Battery Technology

KiloVault's LFP technology isn't subject to the thermal run-away issues as with other lithium technologies. No active cooling needed.

Deep Cycle, Up to 100% DoD

Hammer the battery with 100% discharge every day and even after 2000 cycles 80%+ of the battery's capacity will be there for you. Discharge it less and the story gets even better.

Higher Efficiency, Less Waste

You'll get 8 to 14% more usable stored energy compared to lead acid batteries thanks to higher efficiencies in the HLX series.

Smart Investment

HLX series has lower cost per watt-hour stored per cycle than lead acid batteries due to long cycle life and greater depth of discharge capability.

Integrated Bluetooth for Monitoring

Built-in Bluetooth and the convenient KiloVault HLX app make monitoring battery health and performance easy.

330 Codman Hill Rd, Boxboro, MA 01719, USA • +1-888-218-5924 • info@kilovault.com • www.KiloVault.com

Electrical Specifications

ITEM	SPECS	
Model	CHLX 1800	CHLX 3600
Rated Capacity	1800Wh	3600Wh
Rated Voltage	12.8V DC	12.8V DC
Nominal Amp-Hour Capacity	150Ah	300Ah
Full Charge Voltage	14.6 ±0.2V	14.6 ±0.2V
Continuous Discharge Current	150A	150A
Maximum Discharge Current	150A (cont.)	200A/30 mins
Peak Discharge Current (<3 secs)	500A	500A
Standard Charge Current	100A	100A
Maximum Charge Current	150A	150A
Discharge Cut-Off Voltage	11.5V	11.5V

Additional Specifications

ITEM	SPECS
Operating Temperature Range (Internal to Battery)	Charging: 32 - 113˚F (0 - 45˚C) Discharging: -4 - 140˚F (-20 – 60˚C)
Ambient Temperature Range (External to Battery)	Charging: -22 to 113°F (-30 to 45°C)
Internal Heating	Approx. 1.5 hours to warm battery from -22°F to 32°F (-30°C to 0˚C)
Optimal Temperature Range	59 – 95˚F (15 – 35˚C)
Self-Discharge Rate	≤2% per month
Estimated # of Cycles Until 80% of Rated Wh Capacity Remains	2000 cycles @ 100% Depth of Discharge 5000 cycles @ 80% Depth of Discharge
Voltage Configurations	12, 24, 36 or 48V
Maximum Configuration	4 batteries in parallel OR 4 batteries in series (4) - not both
Battery Management System	Monitors and optimizes charge and discharge for each cell, provides overcharge, over discharge, temperature and short circuit protection.
Maximum Time Between Charges	6 months
Warranty	7.5 Year Limited Warranty
Monitoring	Built-in Bluetooth and HLX app for on-site battery status monitoring

CHLX 1800 Physical Specs

ITEM	SPECS
Weight	45.2 lbs. (20.5 kg)
Height	9.4 in (240 mm)
Width	19.1 in (485 mm)
Depth	6.7 in (170 mm)

CHLX 3600 Physical Specs

ITEM	SPECS
Weight	84.2 lbs (38.2 kg)
Height	10.6 in (269 mm)
Width	20.5 in (520 mm)
Depth	8.7 in (220 mm)

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