



HARDENED FOR ENERGY INDEPENDENCE

The HLX series of solar lithium batteries was specifically designed and tested for the beating that serious hybrid and off-grid inverters and solar charge controllers can throw at it.

Compared to traditional deep cycle batteries the HLX Series' lithium battery technology will more efficiently store and deliver the renewable energy you have so preciously generated while being far less needy when it comes to your valuable time to maintain them.

SMARTER, SAFER, MORE EFFICIENT, LONGER-LASTING ENERGY STORAGE

- **The Safer Lithium Battery Technology**

KiloVault's Lithium Iron Phosphate technology isn't subject to the thermal run-away issues as with other lithium technologies. As a result of this safety benefit, active cooling is also not needed.

- **Batteries with Depth**

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

- **Batteries that Don't Need Babysitting**

No regular watering required or wanted. No cleaning off of acid along the terminals. No dangerous off-gassing. No equalizing. No desulphating. Just wire them up and go about enjoying your life.

- **Higher Efficiency, Less Waste**

You will get 5 to 12% more useable stored energy compared to lead acid batteries thanks to higher efficiencies in the HLX series.

- **Smart Investment**

Your cost per watt-hour stored per cycle over the HLX series' lifetime will be less than lead acid batteries, reducing the headache of buying and changing out batteries every few years.

KILOVAULT[®] HLX Series

SPECIFICATIONS

HLX Series	1800 HLX	3600 HLX
Rated Capacity	1800Wh	3600Wh
Rated Voltage	12.8V DC	
Nominal Amp-Hour Capacity	150Ah	300Ah
Optimal Charger/Inverter Settings		
Bulk/Absorption Voltage	14.0V recommended (13.8 - 14.1V acceptable)	
Float Voltage	13.8V recommended (13.4 - 14.0V acceptable)	
Low Voltage Inverter Cut-off	12.0V	
Equalization	Disable. Do not use. Battery will shut down into protection mode.	
Over Voltage Shutoff Protection	14.6 ±0.2V	
Under Voltage Shutoff Protection	11.5V	
Continuous Discharge Current	150A	
Maximum Discharge Current	150A (continuous)	200A for 30 mins, 150A (continuous)
Peak Discharge Current (<3 secs)	500A	
Standard Charge Current	100A	
Maximum Charge Current	150A	
Dimensions	19.1in x 6.7in x 9.4in (485mm x 170mm x 240mm)	20.5in x 10.6in x 8.7in (520mm x 269mm x 220mm)
Battery Weight	41.7 lbs (18.9kg)	84.4 lbs (38.3 kg)
Shipping Weight	45.2 lbs (20.5kg)	103.4 lbs (46.9 kg)
Terminals	Stainless Steel M8-1.25 x 12 mm Bolts	
Operating Temperature Range	Charging: 32 - 113°F (0 - 45°C) Discharging: -4 - 140°F (-20 - 60°C)	
Optimal Temperature Range	59 - 95°F (15 - 35°C)	
Temperature Protection		
Low Temp. Charge Protection	32°F (0°C) with protection release at 39°F (4°C)	
Low Temp. Discharge Protection	-4°F (-20°C) with protection release at 14°F (4°C)	
High Temp. Charge Protection	149°F (65°C) with protection release at 122°F (50°C)	
High Temp. Discharge Protection	149°F (65°C) with protection release at 122°F (50°C)	
Over Current Protection		
Delay until cutoff @255A	4-6 minutes	
Delay until cutoff @400A	5-6 seconds	
Time until protection is released	8 seconds after load is disconnected	
Self-Discharge Rate	≤2% per month	
Normal Self-Discharge Current	≤20mA	
Estimated # of Cycles Until 80% of Rated Watt-Hour Capacity Remains	2000 cycles @ 100% Depth of Discharge 5000 cycles @ 80% Depth of Discharge	
Voltage Configurations	12, 24, 36 or 48V	
Maximum Configuration	Up to 4 parallel strings of 4 series batteries (16)	
Battery Management System	Monitors and optimizes charge & discharge for each cell, provides overcharge, over discharge, temperature and short circuit protection	
Maximum Time Between Charges	6 months	
Warranty	3 Year Manufacturer Defect Free	
Monitoring	Wireless on-site battery status monitoring (optional)	