



KiloVault® HLX+ Series

Smarter and More Powerful.
It Runs Hot and Cold

The First Battery For All Climates

The new HLX+ Series from KiloVault is the first solar lithium battery made for both hot and cold. This premium product offers the features of both the HLX and CHLX series of batteries, at an exceptional value. Now ETL Certified to UL Standard 1973.



More Capacity

The cells in the HLX+ Series offer double the capacity of the prior version, providing increased power output and efficiency.



Better Communication

The optional HLX+ Bridge enables communications between groups of batteries, providing coordinated charging, discharging, and heating cycles.



Quiet Operation

The push-button display allows you to get instantaneous state-of-charge readings, giving you a better understanding of the health of your batteries.



The Safer Lithium Battery Technology

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



Integrated Bluetooth for Monitoring

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



Extreme Temperature Operation

Now you have the best of both worlds - efficient operation in hot and cold environments - even down to sub-freezing temperatures!

Electrical Specifications

| ITEM | SPECS | | |
|-------------------------------|-----------|-----------|-----------|
| Model | 1200 HLX+ | 2400 HLX+ | 3600 HLX+ |
| Rated Capacity | 1200Wh | 2400Wh | 3600Wh |
| Rated Voltage | 12.8Vdc | 12.8Vdc | 12.8Vdc |
| Nominal Amp-Hour Capacity | 100Ah | 200Ah | 300Ah |
| Full Charge Voltage | 14.2V | 14.2V | 14.2V |
| Continuous Discharge Current | 100A | 150A | 200A |
| Maximum Discharge Current | 100A | 200A | 200A |
| Peak Discharge Current (3Sec) | 350A | 500A | 500A |
| Standard Charge Current | 50A | 100A | 150A |
| Maximum Charge Current | 80A | 150A | 200A |
| Discharge Cut-off voltage | 10 ±0.2V | 10 ±0.2V | 10 ±0.2V |



1200 HLX+ Physical Specifications

| ITEM | SPECS |
|--------|-------------------|
| Weight | 25.8 lbs (11.7kg) |
| Length | 12.5 in (318mm) |
| Depth | 6.5 in (165mm) |
| Height | 9.25 in (235mm) |

Additional Specifications

| ITEM | SPECS |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature Range (Internal to Battery) | Charging: 32 - 113 °F (0-45 °C) Discharging: -4 - 131 °F (-20 - 55 °C) |
| Ambient Temperature Range (External to Battery) | -4 to 113°F (-20 to 45°C) |
| Internal Heating | Approx. 15-2 hours to warm battery from -4°F to 41°F (-20° C to 5° C) |
| Optimal Temperature Range | 59 - 95°F (15 - 35°C) |
| Self-Discharge Rate | ≤3% 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 parallel strings of 4 series batteries (16 with use of required HLX+ Bridge.) Otherwise, max of 4 batteries can be used in series OR parallel, but 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 |
| Monitoring | Built-in Bluetooth and HLX IT app for on-site battery status monitoring |
| Compliance Certifications | ETL Certified to UL Standard 1973; UL1642; UN383; IEC62619; CE; OSHA 18001/ ISO45001; ISO 9001/14001 |
| Ingress Rating | IPX4 |
| Warranty | 7.5 Year Limited Warranty |



2400 HLX+ Physical Specifications

| ITEM | SPECS |
|--------|-----------------|
| Weight | 59.5 lbs (27kg) |
| Length | 19.9 in (505mm) |
| Depth | 6.77 in (172mm) |
| Height | 10.1 in (255mm) |



3600 HLX+ Physical Specifications

| ITEM | SPECS |
|--------|-----------------|
| Weight | 88.2 lbs (40kg) |
| Length | 20.5 in (521mm) |
| Depth | 11 in (280mm) |
| Height | 9.25 in (235mm) |