

Voltronix® USA, Inc.

The Heart of Alternative Energy

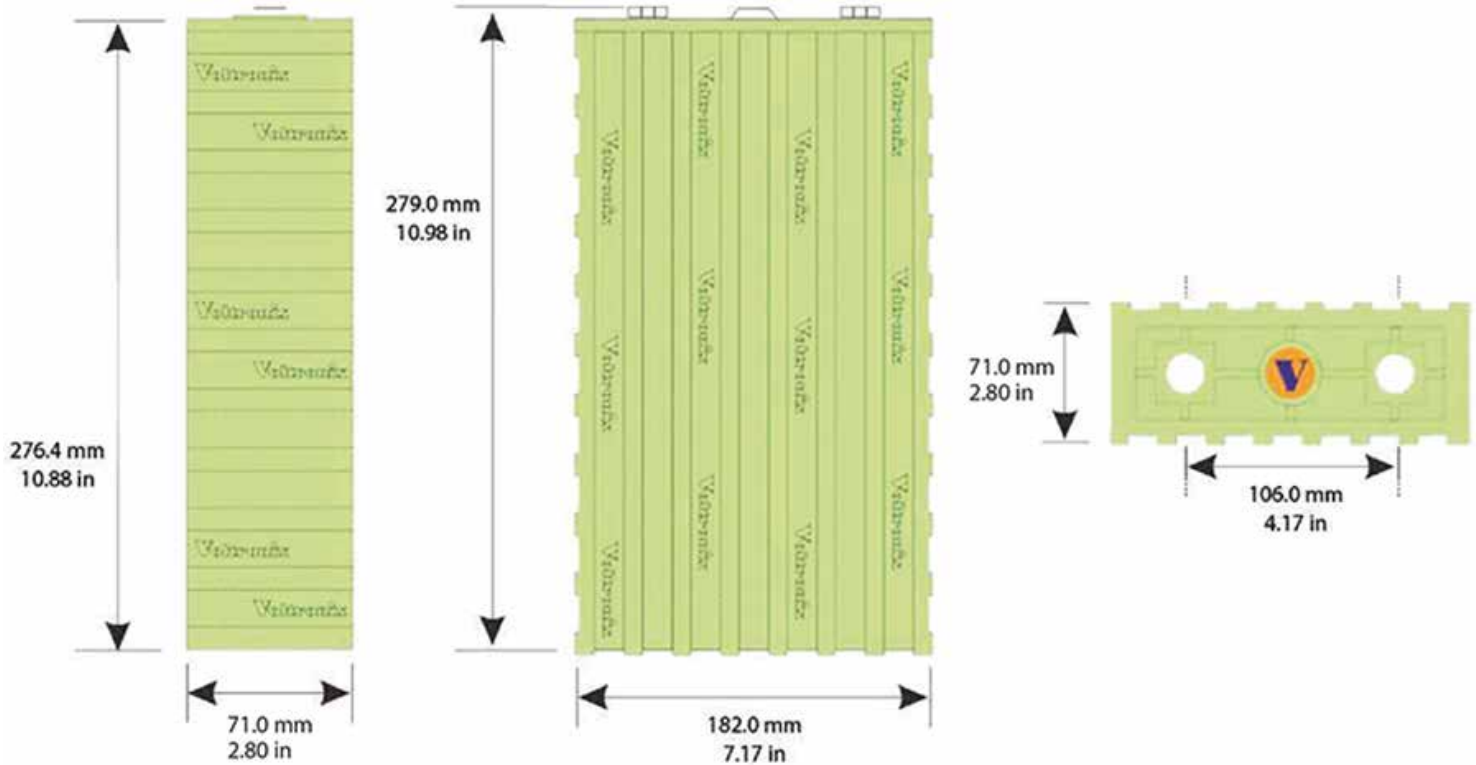
Lithium Ion Batteries



Voltronix® USA, Inc.

(866) 777-2329 | voltronixusa.com

3.2v Battery Cell



Typical Specifications:

Operating Voltage: 2.5-4.0
 Max Charge Current: $\leq 3C$
 Max Discharge Current (Continuous): $\leq 3C$
 Operating Temperature: $-45^{\circ}\text{C} \sim 85^{\circ}\text{C}$
 Cycle Life: (80%DOD): 2,000
 Energy Density 230-380 Wh/L
 Discharge Rate: $\leq 3\%$ Monthly

Nominal Voltage: 3.2
 Standard Charge/Discharge Current: 0.5C
 Max Discharge Current (Impulse): $\leq 20C$
 Temperature Durability of Case: 200°C
 Cycle Life: (70%DOD): 3,000
 Specific Power: 600-1,000 W/Kg

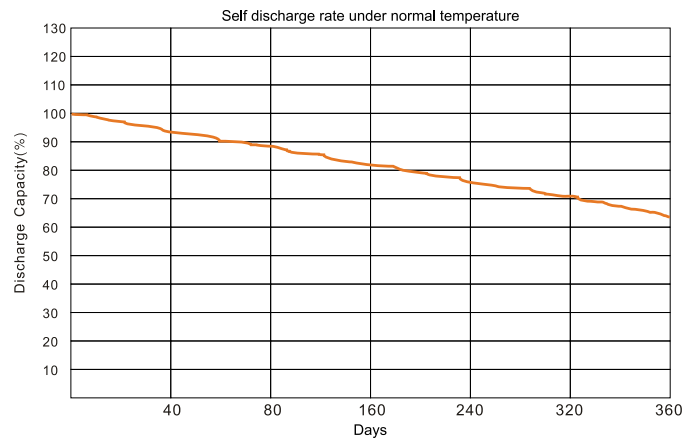
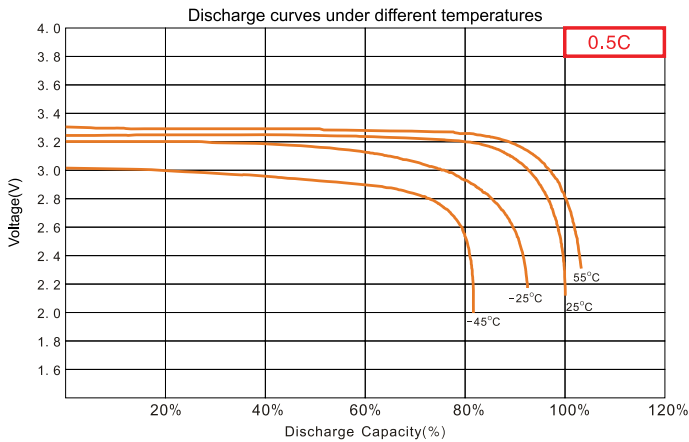
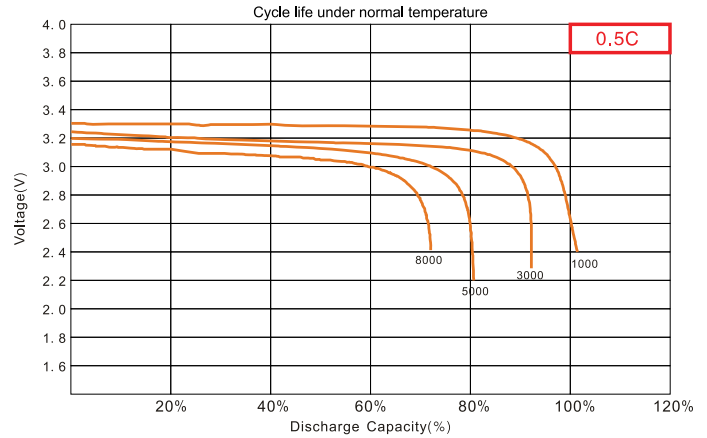
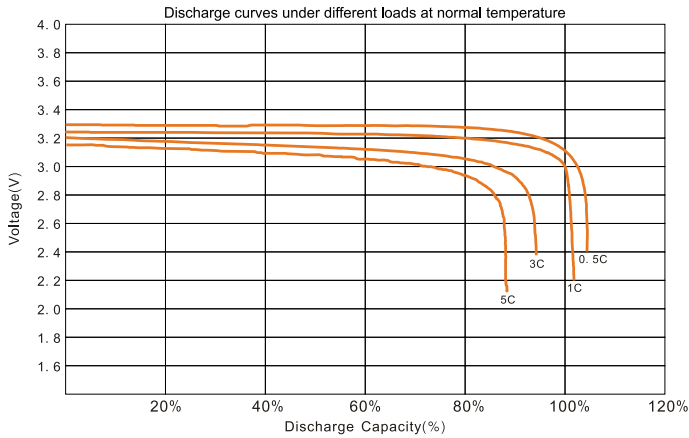
Model #	Capacity Ah	Weight		Length		Width		Height		Overall Height		Terminal spacing	
		kg	lbs	mm	in	mm	in	mm	in	mm	in	mm	in
V-LFP10Ah	10	0.38	0.84	70.0	2.76	27.0	1.06	101.0	3.97	113.0	4.45	39.0	1.54
V-LFP20Ah	20	0.65	1.43	70.0	2.76	27.0	1.06	180.0	7.08	180.0	7.09	39.0	1.54
V-LYP40AHA	40	1.50	3.31	116.0	4.57	46.0	1.81	181.0	7.13	183.0	7.20	61.0	2.40
V-LYP60AHA	60	2.30	5.07	115.0	4.53	61.0	2.40	200.0	7.87	203.0	7.99	61.0	2.40
V-LYP90AHA	90	3.0	6.61	143.0	5.63	61.0	2.40	215.0	8.46	218.0	8.58	82.0	3.23
V-LYP100AHA	100	3.5	7.72	179.0	7.05	62.0	2.44	214.0	8.43	218.0	8.58	106.0	4.17
V-LYP150AHA	150	5.3	11.68	209.0	8.23	65.0	2.56	276.0	10.87	280.0	11.02	120.0	4.72
V-LYP160AHA	160	5.6	12.35	209.0	8.23	65.0	2.56	276.0	10.87	280.0	11.02	120.0	4.72
V-LYP180AHA	180	5.9	13.01	209.0	8.23	65.0	2.56	276.0	10.87	280.0	11.02	120.0	4.17
V-LYP200AHA	200	7.3	16.09	362.0	14.25	55.5	2.19	248.7	9.79	256.0	10.08	210.0	8.27
V-LYP260AHA	260	8.7	19.18	362.0	14.25	55.5	2.19	275.0	10.83	283.0	11.14	210.0	8.27
V-LYP300AHA	300	9.6	21.16	362.0	14.25	55.5	2.19	290.0	11.69	306.0	12.05	210.0	8.27
V-LYP400AHA	400	13.5	29.76	461.0	18.15	65.0	2.56	277.0	10.83	285.0	11.16	240.0	9.61
V-LYP700AHA	700	21.0	46.30	627.0	24.69	67.0	2.64	280.0	11.02	306.0	12.05	Special	
V-LYP1000AHA	1000	33.0	72.75	850.0	33.46	71.0	2.80	366.0	14.41	375.0	14.76	Special	
V-LYP1000AHAC	1000	35.0	77.16	560.0	22.05	130.0	5.12	356.0	14.02	356.0	14.02	68	2.68
V-LYP10000AHA	10000	335.0	738.55	687.0	27.05	367.0	14.45	756.0	29.76	756.0	29.76	Special	

NOTE: Some variance may occur.

Voltronix™

The Heart of Alternative Energy

CHARGE & DISCHARGE CHARTS



**Proud to Offer
the Orion BMS
from Ewert
Energy Systems**



EWERT
ENERGY SYSTEMS
www.ewertenergy.com

The Orion BMS is a professional grade lithium ion battery management system designed to be robust and programmable for nearly any application that uses lithium ion batteries. Its centralized design provides a very high level of immunity to the electrical noise that often plagues BMS systems. Fully programmable parameters and a wide operating voltage range make it usable with any lithium ion battery chemistry.

Features:

- Reporting of voltages, current, temperature, state-of-charge, and pack health.
- Intelligent low loss cell balancing
- Centralized design -- no cell tap boards
- Designed specifically for high EMI immunity
- Very low power sleep mode
- 2 fully programmable CANBUS interfaces
- Stored Freeze Frame data for quick problem diagnostics
- Redundant design for high reliability
- Pre-emptive current limit calculations for smooth operation
- Integrates with many motor controllers, chargers, and 3rd party graphical displays
- OBD2 compatible for diagnostics and data reporting

- Well suited for standby power (UPS) and alternative energy storage
- Many other advanced features

Specifications:

- Cell measurement voltage: 0.5 - 5v
- Voltage resolution about 1.5mV
- 4 - 180 cells in series supported by a single unit (more for multiple units.)
- CANBUS speeds: 125, 250, 500, 1000 Kbps
- Temperature range: -40 to +80C
- Cell voltage sampling rate: 30ms typical (all cells)
- Power supply active current: 3 watts typical (total system)
- Power supply sleep current: 650 uA typical



Applications

- *Transportation*
- *Recreational Vehicles*
- *Military*
- *Power Backup/Energy Storage*
- *Medical Devices*



Recycling Program

Voltronix is proud to announce a Lithium Ion Battery Recycling Program.

As we are committed to manufacturing and providing green products, we now offer a recycling program for the Voltronix Lithium Ion batteries used by our customers. By recycling our batteries, we complete the circle for green products and provide a clean alternative to the standard land fill disposal. To encourage the green effort, our recycling program will be offered free of charge. Please consult with one of our Green Team Technicians for details. Thank you for your continued support to help promote a clean environment!

Warranty

1-4 years depending on the application

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