



K2 ENERGY

Product Catalog 2022



K2 Energy Solutions

K2 Energy engineers and manufactures rechargeable lithium ion battery cells and customized energy storage systems for a wide variety of applications. At K2 Energy, we are devoted to advancing the use of rechargeable Lithium Ion Phosphate (LFP) batteries that can readily replace dated chemistries like Lead acid, NiCd, NiMH and LCO.

Our batteries are designed to offer extremely long cycle life, high energy densities, outstanding performance, and quick charging times, while also being environmentally sustainable and providing exceptional safety. We offer a line of lead acid replacement batteries, and our standard batteries are UNDOT and IATA tested.

We strive to create energy products that outperform traditional batteries in performance, safety, power and environmental benefits. Producing energy battery cells and systems we are certain that our products will stand up to whatever challenge you may be facing and will last for years to come.

Performance Benefits



Superior Power

Provides consistent power over a wide range of states of discharge for greater pack utilization



Highest Energy Density

Industry's highest LFP energy density with unmatched efficiency and performance



Safety

Proven chemically safe formula providing abuse tolerance over lithium oxide chemistries



Environmentally Friendly

No harmful or expensive heavy metals – Fully recyclable with minimal harmful environmental impact



Cycle Life

Delivers thousands of cycles at 100% depth of discharge – 10X the life of traditional lead acid



Light Weight

Up to 30% of the weight of traditional lead acid batteries offers smaller space requirements with increase performance

HIGH CAPACITY ENERGY BATTERIES



UNDOT 38.3 Tested | RoHS Compliant
UL 2054 Certified | EC 62133 Certified

EXTREME DUTY **K2B24V11EBX**

✓ Compatible with most 24V Lead Acid Chargers

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	11.25
Avg. Operating Voltage @ C/5 (V)	25.6
Weight (kg/lbs)	2.5 / 5.51
Height (mm/in)	165 / 6.57
Width (mm/in)	89.5 / 3.52
Length (mm/in)	115 / 4.53
Enhanced shock and vibration resistance	

*Limit: 3 in series

K2B24V11EB

✓ Compatible with most 24V Lead Acid Chargers

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	11.25
Avg. Operating Voltage @ C/5 (V)	25.6
Weight (kg/lbs)	2.5/5.51
Height (mm/in)	165/6.57
Width (mm/in)	89.5/3.52
Length (mm/in)	115/4.53

*Limit: 1 in series



UNDOT 38.3 Tested | RoHS Compliant
UL 2054 Certified | EC 62133 Certified

K2B12V11EB

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	11.25
Avg. Operating Voltage @ C/5 (V)	12.8
Weight (kg/lbs)	1.3 / 2.87
Height (mm/in)	97.3 / 3.83
Width (mm/in)	64.3 / 2.53
Length (mm/in)	151 / 5.94

*Limit: 2 in series



UNDOT 38.3 Tested | RoHS Compliant

K2B12V22EB

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	22.4
Avg. Operating Voltage @ C/5 (V)	12.8
Weight (kg/lbs)	2.5 / 5.51
Height (mm/in)	165 / 6.50
Width (mm/in)	89.5 / 3.52
Length (mm/in)	115 / 4.53

*Limit: 2 in series



UNDOT 38.3 Tested | RoHS Compliant



UNDOT 38.3 Tested | RoHS Compliant

K2B24VU1-1

K2 Charger Available

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	26.25
Avg. Operating Voltage @ C/5 (V)	25.6
Weight (kg/lbs)	5.3 / 11.7
Height (mm/in)	173 / 6.8
Width (mm/in)	132 / 5.2
Length (mm/in)	197 / 7.8



UNDOT 38.3 Tested | RoHS Compliant

K2B12VU1-1

K2 Charger Available

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	52.5
Avg. Operating Voltage @ C/5 (V)	12.8
Weight (kg/lbs)	5.7 / 12.5
Height (mm/in)	173 / 6.8
Width (mm/in)	132 / 5.2
Length (mm/in)	197 / 7.8



UNDOT 38.3 Tested | RoHS Compliant

PRO SERIES K2B12VG27-3

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	112.5
Avg. Operating Voltage @ C/5 (V)	12.8
Weight (kg/lbs)	13.6 / 30
Height (mm/in)	210.8 / 8.3
Width (mm/in)	167.7 / 6.6
Length (mm/in)	307.4 / 12.1
Form Factor (Size)	Group 27

K2B12VG27-3 ADDED BENEFITS



- Battery Fuel Gauge
- Full Battery Management System (BMS)
- IP67 Enclosure

HIGH CAPACITY ENERGY CELLS



UNDOT 38.3 Tested | RoHS Compliant
UL1642 | IEC62133**

LFP26650E-3750-11

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	3.75
Avg. Operating Voltage @ C/5 (V)	3.20
Internal Impedance (mΩ) @ 1kHz, AC	≤20
Weight (g / oz)	88 ± 2 / 3.14



UNDOT 38.3 Tested | RoHS Compliant |
IEC 62133 Certified | UL 1642

LFP18650E-1500-03

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	1.5
Avg. Operating Voltage @ C/5 (V)	3.2
Internal Impedance (mΩ) @ 1kHz, AC	< 40
Weight (g / oz)	40 ± 2 / 1.42



UNDOT 38.3 Tested | RoHS Compliant |
IEC 62133 Certified | UL Listed

LFP26650E-3200-11

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	3.2
Avg. Operating Voltage @ C/5 (V)	3.2
Internal Impedance (mΩ)	< 19
Weight (g / oz)	82 ± 2 / 2.99



UNDOT 38.3 Tested | RoHS Compliant |
IEC 62133 Certified | UL 1642

LFP18650E-1350-02

SPECIFICATIONS

Nominal Capacity @ C/5 (Ah)	1.35
Avg. Operating Voltage @ C/5 (V)	3.3
Internal Impedance (mΩ) @1kHz, AC	< 13
Weight (g / oz)	41 ± 2 / 1.45

CUSTOM ENERGY SOLUTIONS

K2 Energy not only provides cutting edge technology in the Lithium ion energy storage market, but has a world class team of scientists and engineers with extensive knowledge and experience in all aspects of energy storage design, systems integration, manufacturing, support testing and quality control.

Utilizing the latest Lithium Ion Phosphate technology, we produce incredibly effective energy solutions for use in medical and transportation applications. Since our knowledge base encompasses from the cell to the system level, our team is able to optimize battery solutions to achieve customer's goals.

Our technology ensures our customers to maintain their competitive advantage through our constant research and development of new process technology and products; reimagining what is possible and pushing the limits of energy storage technology.

Contact K2 energy solutions for your fully customizable systems to enable you to develop battery management and storage systems specific to your needs.





K2 ENERGY[®]

K2 Energy Solutions, Inc.

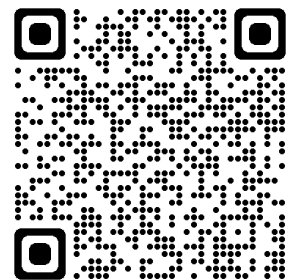
7461 Eastgate Road
Henderson, Nevada 89011

For more information about our company
and products contact us at:

Phone: 702 479-3590

Fax: 702 558-0180

Email: info@k2battery.com



K2battery.com