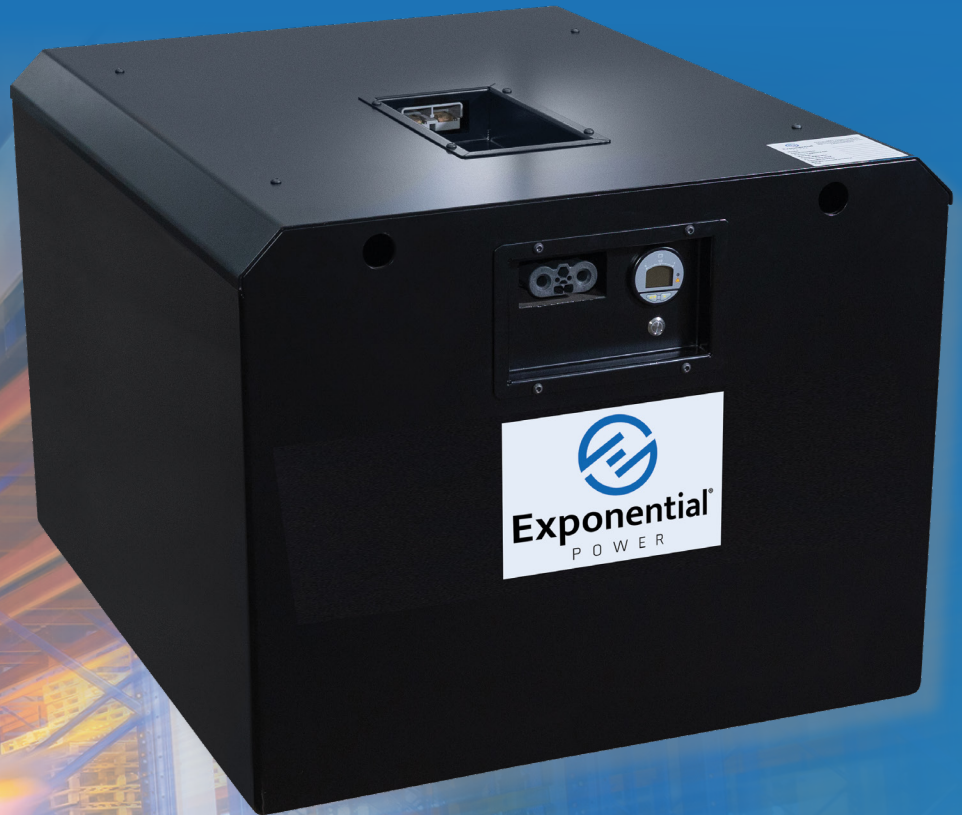




**Exponential**<sup>®</sup>  
POWER

# Motive Power Lithium Technologies





## ABOUT EXPONENTIAL POWER

**Exponential Power** provides industry leading service and cutting-edge technology led by experts who have been powering stationary and motive power applications since 1915. We entered the forklift industry in the 1970's, where we've continued to focus on low downtime, increased productivity, and custom solutions for each customer.

Now, **Exponential Power** is using that knowledge and experience to transform material handling operations with motive lithium technologies. Ideal for heavy duty applications, our motive lithium battery is easy to use, has a longer run cycle, and recharges quickly – all to help our customers meet the ever-increasing demands for production.



## Our Approach Is To Find What Is Right For Your Application.

## LEAD ACID COMPARED TO LITHIUM-ION BATTERIES

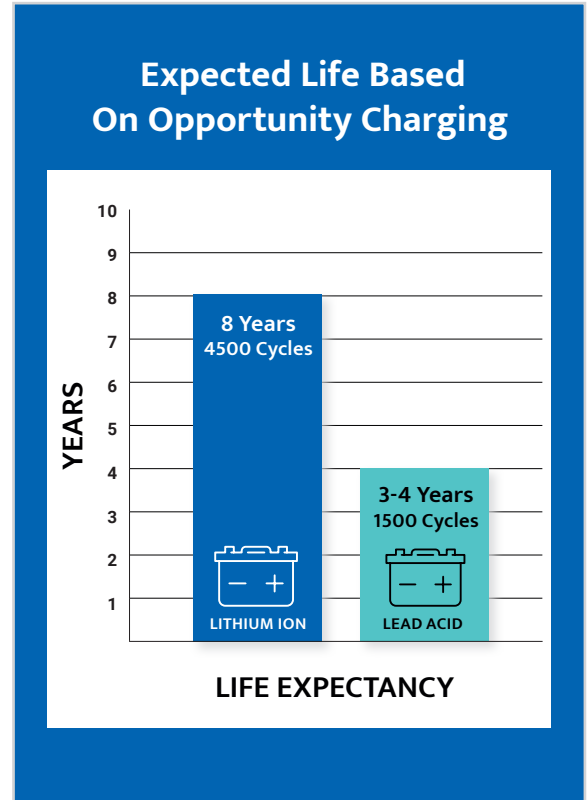
CHARACTERISTICS	LEAD ACID	LITHIUM ION
Life Expectancy	5 Years, 1500 Cycles	8 Years, 3500 Cycles
Energy Density	~ 100 Wh/L	>233 Wh/L
Charging/Energy Efficiency	Up to 80%	Up to 95%
Emissions	Gassing when charging	Environmentally friendly/Emission free
Required Maintenance	Weekly watering and regular maintenance Appropriate PPE required	No watering and minimal effort
Charge Rate	.4C Maximum	1C Maximum
Best Applications	Single battery per shift or multishift applications with opportunity charging	Single battery per truck or multishift, heavy usage applications
Voltage Range	24, 36, 48, 72, 80 and 120V	24, 36, 48, 72, 80 and 120V
Applications	Class I, II, and III forklift and AGV's	Class I, II, and III forklift and AGV's



## APPLICATION AND POWER STUDY

### Opportunity Charging Cost Comparison Example

LITHIUM ION		Truck Model: 5,000 Capacity Lift	LEAD ACID	
\$24,460	BATTERY	\$10,320*		
\$4,400	CHARGER	\$3,810		
\$28,860	TOTAL	\$24,450		
\$0	WATERING ANNUALLY	\$800		
\$105	ANNUAL PM COST	\$350		
\$150	ANNUAL MISC. REPAIRS	\$150		
8 YEARS	LIFE CYCLE	8 YEARS		
<b>\$30,900</b>	<b>TOTAL COST TO OWN</b>	<b>\$34,850</b>		



We offer application analysis and power study to ensure the best recommended solution for your application.

\* Lead-acid battery cost must be doubled to achieve an 8-year life cycle comparison.

## OUR PRODUCT

### Battery Interface

- Remote and on-board state of charge display
- Dual Port – Charge/Discharge

### BMS & Power Circuit

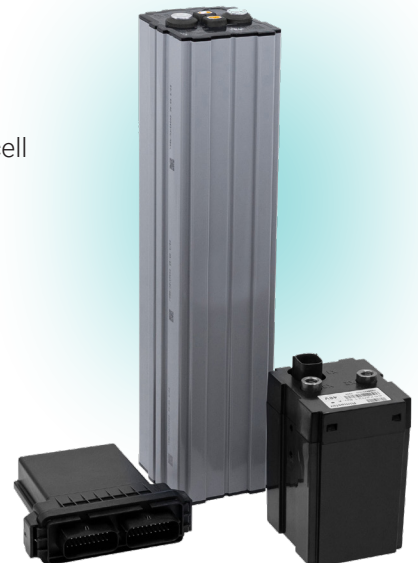
- Continuous monitoring of crucial operating parameters (voltage, temperature and current)
- Fully regulated charge and discharge parameters
- Integrated balancing function for maximum battery cycle life

### Modular Design

- Maximum safety
- Full monitoring and balancing per cell
- Robust construction
- Serviceability

### Battery Housing

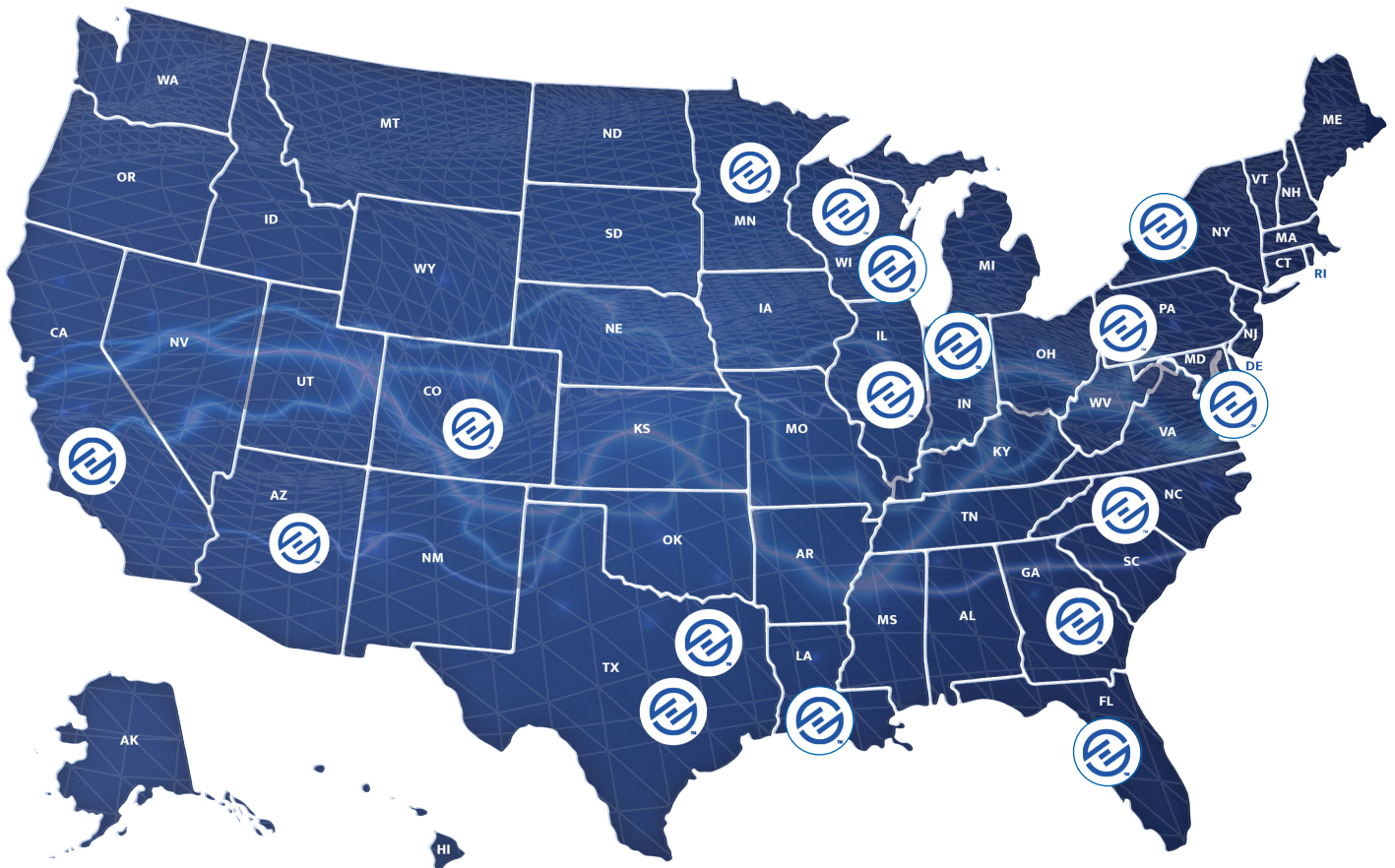
- Available to meet all forklift and AGV applications Class I, II, and III
























# SERVICE AND DISTRIBUTION LOCATIONS



- |  |  |   |   |  |
|--|--|---|---|--|
|  <p><b>HEADQUARTERS</b><br/> <b>WISCONSIN</b> ___ Menomonee Falls<br/>       N56 W16665 Ridgewood Drive<br/>       Menomonee Falls, WI 53051<br/>       Phone: 262.703.5800</p> |  <p><b>ARIZONA</b> ___ Phoenix<br/>       1509 W. Harvard Avenue<br/>       Gilbert, AZ 85233<br/>       Phone: 800.638.9890</p>              |  <p><b>CALIFORNIA</b> ___ Bakersfield<br/>       4842 Burr Street, Suite B<br/>       Bakersfield, CA 93308<br/>       Phone: 661.321.9929</p> |  <p><b>COLORADO</b> ___ Denver<br/>       18150 E. 32nd Place, Unit D<br/>       Aurora, CO 80011<br/>       Phone: 800.638.9890</p>          |  <p><b>FLORIDA</b> ___ Lakeland<br/>       3629 Reynolds Road<br/>       Lakeland, FL 33803<br/>       Phone: 863.904.6050</p>              |
|  <p><b>GEORGIA</b> ___ Atlanta<br/>       1649 Sands Place SE, Suite C<br/>       Marietta, GA 30067<br/>       Phone: 770.916.1747</p>   |  <p><b>ILLINOIS</b> ___ Chicago<br/>       179 Easy Street<br/>       Carol Stream, IL 60188<br/>       Phone: 630.221.1700</p>               |  <p><b>INDIANA</b> ___ Fort Wayne<br/>       7603 Honeywell Drive<br/>       Fort Wayne, IN 46825<br/>       Phone: 260.420.5170</p>           |  <p><b>LOUISIANA</b> ___ New Orleans<br/>       21448 Marion Lane<br/>       Mandeville, LA 70471<br/>       Phone: 985.801.5000</p>          |  <p><b>MARYLAND</b> ___ Baltimore<br/>       9051 Red Branch Road, Suite H<br/>       Columbia, MD 21045<br/>       Phone: 800.873.8793</p> |
|  <p><b>MINNESOTA</b> ___ Minneapolis<br/>       240 7th Avenue NE<br/>       Perham, MN 56573<br/>       Phone: 800.638.9890</p>  |  <p><b>NEW YORK</b> ___ Rochester<br/>       400 Mason Road<br/>       Fairport, NY 14450<br/>       Phone: 585.425.1954</p>                  |  <p><b>NORTH CAROLINA</b> ___ Charlotte<br/>       572 Griffith Road<br/>       Charlotte, NC 28217<br/>       Phone: 980.298.6131</p>         |  <p><b>PENNSYLVANIA</b> ___ Pittsburgh<br/>       106 Industrial Park Road<br/>       Brookville, PA 15825<br/>       Phone: 814.849.7171</p> |  <p><b>TEXAS</b> ___ Dallas<br/>       2670 Observation Trail<br/>       Round Rock, TX 75032<br/>       Phone: 214.247.5150</p>            |
|  <p><b>TEXAS</b> ___ Houston<br/>       207 Deerwood Glen Drive<br/>       Deer Park, TX 77536<br/>       Phone: 713.395.4500</p>   |  <p><b>WISCONSIN</b> ___ Appleton<br/>       N922 Tower View Drive, Unit J<br/>       Greenville, WI 54942<br/>       Phone: 920.757.1175</p> |   |   |  |