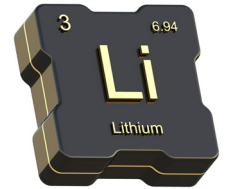


Pro Charging Systems, LLC Leads the Way Battery Chargers Specifically Configured For Lithium Batteries



Over the past several years lithium battery packs have been developed for use in a wide range of applications ranging from smart phones to electric powered automobiles. Lithium batteries have been evolving at a rapid pace providing more energy density, greater energy output per volume, longer life cycles and improved reliability. For instance, researchers at the University of Illinois at Urbana-Champaign have developed a new lithium battery technology that is 2,000 times more powerful than comparable batteries that can be charged 1,000 times faster. While this new lithium battery technology is in the developmental stages, it will most likely be used in small electronics until it is proven that it can be safely scaled up for use in larger lithium battery pack applications by the engineers and researchers at the University of Illinois at Urbana-Champaign. Nevertheless, the news out of this university underscores the pace of change relative to lithium batteries and the technological sophistication of these battery systems.

Clearly, these advanced battery systems have been transformational from a power supply perspective; however they have also had some notable safety related failures as a result of overheating. While the failure rates are very low when compared to the total number of batteries in use globally, in a few cases lithium battery overheating resulted in fires or explosions. The use of lithium battery packs in industrial applications and in transportation, can present special challenges from a battery charging perspective. Underwriter's Laboratories and other industry organizations continue to evaluate and develop new safety standards for lithium battery systems as they are scaled up for use in larger equipment applications.

At Pro Charging Systems, LLC (PCS), as lithium batteries are being developed for industrial and recreational use, we have been asked by clients if PCS battery chargers are compatible with lithium battery systems. The simple answer is yes, with an important caveat. PCS battery chargers with DeltaVolt® Intuitive Charging Technology and PROVolt™ Intuitive Charging Technology can be programmed to meet the specific charge profile requirements of a manufacturer's line of lithium batteries. By utilizing PCS's advanced DeltaVolt® or PROVolt™ technology, the charge profile can be precisely configured to meet performance requirements. The combination of powerful intuitive charging capabilities coupled with the specific tuning of the system's algorithms, helps to greatly reduce the probability of an overcharging/overheating scenario, further enhancing the safety and performance of the lithium battery or battery pack.

If your company manufactures or utilizes a line of lithium batteries and would like to purchase a Pro Charging Systems charger, please contact us to discuss your needs and provide your specific requirements. Pro Charging Systems, LLC builds the most advanced battery chargers on the market today. We look forward to hearing from you!

Pro Charging products available with Lithium configurations include:
Eagle Performance Series
Dual Power Series
Professional Series
Sportsmen Series
Industrial 2412

