

Our **Product**



Custom Battery Design& Rapid Prototyping

Have an existing or future application, but don't yet have the solution for providing power? We have you covered by offering free design for all your battery requirements!



UN 38.3 Testing and Other Testing Services

We provide robust testing services to meet various safety standards, such as UN 38.3, IEC 62133, ATEX, Intrinsic Safety, and more



Custom Battery Management Systems and Circuit Boards

We supply and design Battery Management Systems, fuel gauging, protection circuit modules, embedded battery chargers, or other control and data collecting circuitry.



Electro-Mechanical Assemblies

We work with more than just batteries and power supplies. Let us know how we can help!



Power Supplies & Battery Chargers

We can provide custom power supplies and battery chargers to meet your specifications.



Wire & Cable Harnesses

We are able to create a wide variety of custom wire and cable harnesses using different connection options including Molex, TE, and other connectors.

Assembly Capabilities +

We have a diverse set of capabilities in battery pack assembly and battery pack design. Other services we can offer to our customers include: the design and manufacturing of chargers, battery protection circuits, wire and cable harnesses, and electro-mechanical assemblies. Ttek Assemblies is flexible in meeting all your battery needs.



Soldering

Ttek Assemblies uses mostly lead free solder. Leaded solder is also available for special applications



Sonic Welding

The availability of sonic welding allows Ttek to work with battery packs that need to be placed inside a plastic housing.



Spot Welding

Welding is the main method to make a reliable electrical connection between cells in a battery pack. We weld each connection a minimum of 2 times to make it solid and durable.



Potting & Encapsulation

Ttek is able to use potting on battery packs to protect them from water. This is also used to promote safety in hazardous environments where a spark would be dangerous.



Hazmat Shipping

Ttek Assemblies is certified to ship cells and batteries as hazardous materials. This allows us to ship expedited if required, as well as shipping internationally by air. We are also able to have custom battery packs UN 38.3 tested, and we have a Competent Authority approval to ship 100 sample lithium-metal batteries by air untested if needed.

Custom Battery Pack Manufacturing

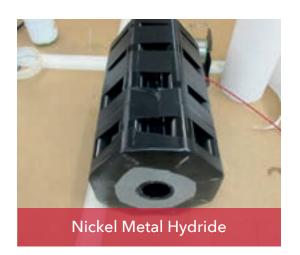
We make batteries of all shapes and sizes and can be made from any of the following battery chemistries.













PCB Design and **Manufacturing** •

In coordination with our partner company, Specialty Engineering, we can also design and manufacture battery safety circuits, charging circuits, and fuel gauge circuits for our customers.



Safety Circuit with Thermal Management made for a Single Cell Battery



Cell Balancing, Safety, and Charge Circuit with Thermal Management



Charge, Safety, and Cell Balancing Circuit with Thermal Management and a Primary Battery Backup

Our **Suppliers** +



























About Us

Ttek Assemblies Inc. has been in service since 1999 providing OEM, Consumer, Commercial, Medical and Military applications with over 25 years of battery design experience with Ni-Cd, Ni- Mh, Pb, Li-Ion, Alkaline, Silver Oxide, Lithium SO2, Lithium SOCL2, Lithium, MNO2 and other chemistries.

We also provide many battery accessories. Our new line of universal chargers are adapted to charge any rechargeable battery chemistry.

We also sell power supplies. We are ISO and RoHS compliant when products require it and a part of the RBRC recycling process.

Ttek Assemblies, Inc. has been serving the electronics industry since 1999. Founded by Mike and Terry Line.

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