



ABOUT

Epsilor Electric Fuel Ltd. is a globally recognized developer and manufacturer of advanced battery and charging systems. The company designs and builds high-performance energy storage products for defense, aerospace, and transportation applications.

Epsilor Electric Fuel Ltd. is an IGNIUM company.



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Epsilor

SMART BATTERIES AND CHARGERS FOR THE 21st CENTURY WARRIOR

Unmatched Energy. Land. Sea. Air. Space.



As tactical electronics became a critical force multiplier on the modern battlefield, batteries, chargers, and portable power systems have evolved from commodity components into mission-critical capabilities that directly determine operational autonomy of tactical units.

Epsilor leverages more than 40 years of experience supporting defense forces worldwide with advanced battery, charger and tactical power solutions engineered for modern operational environments.

Delivering energy density exceeding 500Wh/kg, Epsilor batteries provide warfighters with extended mission autonomy and reduced carried weight, enhancing operational effectiveness in dismounted, vehicle-mounted, and expeditionary applications.

Epsilor specializes in standard military battery formats, including BB-2590/U and PRC-152 batteries, as well as custom-engineered batteries and chargers tailored to specific platforms and military organizations.

Epsilor's charging portfolio ranges from single-bay pocket chargers and multi-channel tactical charging systems to vehicle-mounted and universal high-capacity charging solutions with up to 200 simultaneous charging channels, enabling the rapid energy reconstitution of two infantry battalions within 24 hours.



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SUPPORTING THE TECHNOLOGICAL WARFIGHTER

- Advanced electrochemistry combinations, including semi-solid and quasi-solid electrolyte technologies, delivering superior energy density and enhanced safety
- Integrated power and data distribution hubs with ETHERNET and USB-C connectivity
- Reliable charging and operational performance in extreme arctic and desert theaters
- Advanced battery management capabilities with real-time State of Charge (SoC) and State of Health (SoH) monitoring

STANDARD US MILITARY BATTERIS

- BB-2590/U compatible batteries with dual voltage (14.4V and 28.8V)
- PRC-152 compatible battery, the only FFF replacement battery which communicates with
- PRC-152 radios
- Wide range of configurations: high energy, high power, cold weather, self-heating, etc.

Product	Description	Voltage	Energy	Energy / Capacity	Max Current	Charging Cycles	Operational Temperature Range	Dimensions	Weight	Protection
ELI-2590	Standard BB-2590/U	14.4V / 28.8V	230Wh	7.9Ah / 15.8Ah	18A	500 (100 DoD, to 80% capacity)	-26°F to 140°F -32°C to 60°C	(L;W;H) Inch: 5.0*4.4*2.4 mm: 126*112*62	3.0lb 1,360gr	IP67
ELI-2590-NG	High Energy Density		300Wh	10Ah/20Ah						
ELI-2590-CD	Extra safe non igniting cells (at nail penetration)		216Wh	7.5Ah / 15Ah						
ELI-152	Battery for PRC-152 with communication	10.8V	74Wh	6.8Ah	8A		-40°F to 140°F -40°C to 60°C	(L;W;H) Inch: 2.76*1.34*3.4 mm: 70*34*85	0.77lb 350gr	IP68
ELI-152-CW	Battery for PRC-152 with internal heater		86Wh	8Ah	8A					

CUSTOM BATTERIES

- Hundreds of different products developed, qualified and certified to support numerous tactical systems
- Dozens of applications supported: tactical radios, surveillance systems, computers, navigation, laser designators, training equipment, SATCOM, ATGM, rocket launchers, robotics, detonation, power tools, etc.
- Optimized ruggedized designs for any tactical application, mission duration, consumption profile, installation method, etc.
- Supported communication protocols: One-Wire, SMBus, CANBus, serial, Ethernet, USB, etc.
- Batteries for arctic weather performance, based on innovative cells and integrated heaters that heat up batteries prior to charging



QUALIFICATION AND STANDARDS

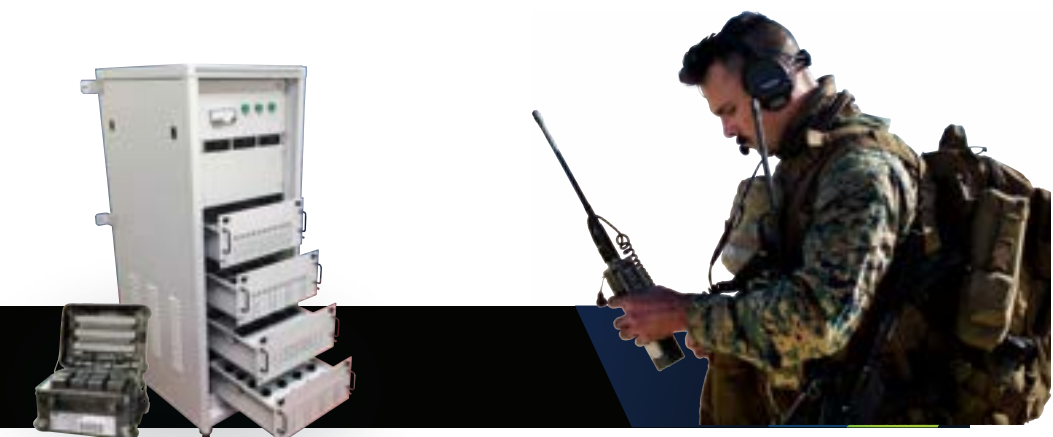
Independent testing and qualification laboratories, supporting a full scale qualification process and a wide range of standards (batteries and chargers): UN-38.3, MIL-STD-810, MIL-STD-461, IEC-62133, IEC-61000, IEC-62368, UL-1642 (cells), UL-2054, MIL-STD-1275, etc.
Manufactured in ISO-9001/2015 and AS-9100D certified facilities.

INSTALL-BASE

With tens of millions of tactical batteries and tens of thousands of chargers, delivered over more than 40 years, we can support any idea and every defense system on earth (and some systems in space). With such rich experience, we offer short development and qualification cycles, supporting rapid time to market and tight risk management process.

TACTICAL CHARGING SOLUTIONS

Wide range of tactical chargers, from a single channel pocket charger to a 20-channel tactical charging case
Universal and system-designated depot chargers, with 100-200 simultaneous channels, capable of recharging two infantry battalions each day; available in stationary, deployable and tactical configurations.
Supporting standard batteries, custom batteries, and universal combinations
Multi-layer charging solutions, designed to support large formations, special-operations units, and all echelon military organizations, according to operational tempo, organizational energy architecture, and logistical best practice
Cold weather charging solutions, which include heater supported charging and special pulse techniques which leverage battery self-heating



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