

# TACTICAL ENERGY INDEPENDENCE



Epsilor's military batteries and chargers are part of the company's Integrated Power Management Logistic and Operational Concept that aims to provide the tactical unit with full mission energy independence

# **CONFIGURATIONS**

The UMC's standard configuration supports simultaneous charging of 5 different types of batteries out of 10 battery types, all in common use of leading defense forces. Moreover, its open architecture enables customization to any battery combination specified by the customer.

While charging, the UMC performs health checks and charging logs for each battery and generates alerts in case of damaged, malfunctioning or outdated batteries. As an option, the UMC network can perform the complete management process of certain battery models or of full battery inventories.

Designed for deployment in depots, in shelters or in the field, the UMC is offered in industrial 19" or in ruggedized rack-mount configurations.

# **BENEFITS**

Extra-high capacity enabling the charging of up to 1000 small batteries or 600 tactical batteries per day – facilitates continuous charging support for a battalion level unit or similar scale users

Universal and flexible architecture: supporting over 10 standard battery types and can be easily adjusted to any other rechargeable battery type

Deployment: easy to deploy in industrial facilities, depots, shelters or in the field

User friendly and safe: UMC requires very short training and can be operated by technicians or by regular soldiers



# **FEATURES**

- Tray mounted charging of small and medium format batteries and remote charging of platform installed batteries
- Operating modes: regular charging, fast charging, controlled discharging; Supports long battery life.
- Battery health check and logging: UMC performs health checks, malfunction alerts, and outdated battery identification during charging and provides operator with LED alerts
  - Power inputs: 110VAC, 230VAC, 24VDC from grid or generator
  - (Option) Battery inventory management system: a group of networked UMCs may perform complete inventory management process including advance unit and arena state of energy reports, both in peacetime and in combat

# **APPLICATIONS**

### **MILITARY**

tactical radio, electro-optical and thermal equipment, projectiles, missile control stations, tactical computers, laser designator equipment, flashlights, electric UAS, emergency lighting systems etc.

### **MEDICAL**

medical batteries, medical trolley, mobile backups, ventilators, mobile ECG systems, patient worn telemetry devices etc.

# **AUTOMOTIVE**

electric industrial cars, golf carts, electric motorcycle fleets

### **MARINE**

electric boat docks

## **TELECOM**

multichannel charging for cellular phones in crowded events



## **SPECIFICATIONS**



Configuration 19" rack - industrial or field deployable

**Charging Method** Up to 5 charger drawers supporting different battery types in a flexible

combination; supports 10 standard battery types and additional custom models

**Charging Channels** Small radio battery: 40 channels in drawer; total 200 channels Tactical radio battery: 20 channels in drawer: total 100 channels

Thermal imager battery: 20 channels in drawer; total 100 channels Medium-size tactical battery: 10 channels in drawer; total 50 channels

Mini UAS battery: 6 – 10 channels in drawer; total 30 – 50 channels USB drawer: up to 50 channels; total 250 channels Electric Vehicle / motorbike: up to 10 24V remote charging channels

**Supported Batteries** BB-2590/U; PRC-148; PRC-152; BB-2800; Li-145, Li-80 US made equipment:

> Israeli made equipment: TLI-718, TLI-9380, TLI-0204, MR-2791;

MR-2716, MR-6240; TRB-48; TRB-44

Other: Electric UAS batteries; missile control station batteries;

electric vehicle batteries etc.

**AC Input** 103 - 265VAC

**DC Input** 22-31VDC (MIL-STD-1275 Compliant)

**Output Voltage** 3.6VDC - 50VDC (supports various battery models and may be modified to

higher voltage)

**Max Charging Power** 5 - 10kW

Safety Safety relay; overheat cut-off; charging drawers disconnect when opened;

residual circuit breaker

**Standards** MIL-STD-810E (transportation),

MIL-STD-1275A, CE (optional)

### ABOUT EPSILOR

Epsilor is the Defense and Aerospace activity of Epsilor-Electric Fuel Ltd. which forms part of Arotech Corporation's Power Systems Division. The division operates R&D and manufacturing facilities in the United States and Israel.

Epsilor-Electric Fuel is a recognized world leader in the development and production of portable power products for the defense, aerospace, marine, medical and automotive industries. The product range includes batteries in a wide variety of electrochemistries, including Lithium Ion, Lithium Polymer, Nickel Metal Hydride and Zinc Air.

**HOW CAN WE HELP YOU?** CONTACT EPSILOR AT:

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