

M300-CX

PORTABLE BATTERY CHARGER AND APU



ENABLE A WIDE RANGE OF MILITARY APPLICATIONS

- Field battery charger
- Vehicle mounted APU
- Dismounted forward base APU
- UGV and robotics power source
- Automatic battery charge maintainer

PROTONEX LEADS THE INDUSTRY IN HIGH-PERFORMANCE, ADVANCED POWER SYSTEMS FOR PORTABLE MILITARY APPLICATIONS

The M300-CX system is designed to meet the stringent demands of a wide range of battery charging and Auxiliary Power Unit (APU) applications. It is a lightweight, compact, rugged power system designed to withstand the harsh operating conditions of military field use. Protonex' unique system design combines both leading edge advances in fuel cell energy conversion and battery charging technology in one complete product solution, providing benefits for military users beyond what is available with existing battery and other fuel cell platforms.

M300-CX POWER SYSTEM BENEFITS

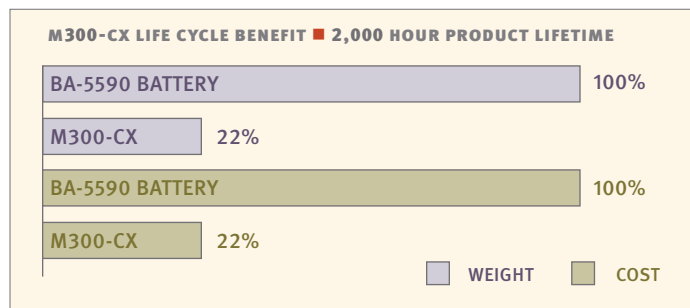
- Reduces logistics burden
- Lowers operational life cycle cost
- Reduces soldier carry weight and bulk
- Achieves near zero signature
- Offers flexibility for a wide range of applications

ACHIEVE NEAR ZERO SIGNATURE

The unique M300-CX system design achieves near zero signature, offering the lowest heat, noise and chemical emissions of any available bulk power source on the market today.

DRAMATICALLY REDUCE LOGISTICS BURDEN

The M300-CX dramatically reduces mission weight, volume and cost associated with disposable battery logistics by facilitating the widespread use of rechargeable batteries. Over a conservative 2,000 hour product lifetime, both weight and cost logistics burdens are reduced by 80%.



THE NEXT GENERATION OF PORTABLE POWER™

FEATURES & FUNCTIONS

- Includes both charger and power source in one product
- Provides automated plug-and-play charger
- Charges up to 6 BB-2590 or 6 Li-80/145, 6 PRC-148 or 6 PRC-152 batteries simultaneously at maximum rate
- Sequentially charges up to 30 batteries with companion FC-601 field chargers
- Alternate battery types are easily supported
- Provides quiet, efficient fuel cell power source
- Uses safe, clean, low cost methanol fuel
- Very low emissions allows use in tents or indoors
- Compatible with Protonex BPM-602 and SPM-611/612 power managers

M300-CX TECHNICAL SPECIFICATIONS

PERFORMANCE	<p>Continuous Output Power 300 Watts</p> <p>APU Output Voltage 28 VDC Nominal</p> <p>Continuous APU Output Current 12 Amps</p> <p>Design Lifetime 2000 Hours</p> <p>APU Peak Output Power 500 Watts for < 10 minutes</p> <p>Fuel Usage 450 ml per hour at 300 W</p>
PHYSICAL	<p>Size 11.5 h x 14.5 w x 9 d inches (30 x 37 x 23 cm)</p> <p>Dry Weight 36 lbs (16 kg)</p> <p>Color Desert Sand</p> <p>Operational Temperature -20 to 50°C</p> <p>Relative Humidity 0–100%, Non-condensing</p> <p>Ruggedization Meets applicable MIL-STD-810G</p>
INTERFACE	<p>Battery/APU Ports Glenair Connector</p> <p>Overcurrent Protection Built In</p> <p>Display and Controls LCD/PC Interface</p> <p>Data I/O Port USB, SMBus</p>
FUEL	<p>Type Methanol & Water Mix</p> <p>Connection External No-drip Quick Connect</p> <p>Standard Packaging 2 liter Fuel Cartridge</p>

All specifications subject to change without notice.

ADDITIONAL PRODUCT OPTIONS

Protonex can also provide the M300-CX system in a number of optional configurations depending on your mission application. Options include: system and fuel packaging, mounting, DC and AC power outputs, and support for a wide range of rechargeable battery types and numbers of batteries under simultaneous charge.

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