



**2.85 kWh
Man Portable
Aluminum-Air Fuel Cell
Power Systems**

- DESCRIPTION:** A man portable fuel cell capable of directly powering a wide range of equipment in the military inventory or recharging secondaries such as nickel cadmium or lithium-ion batteries.
- APPLICATION:** Aluminum air technology for "in-the-field" powering of military equipment and potential commercial applications.
- BENEFITS:** This system can be expected to generate the following benefits:
- Performance:** High energy density compared to field systems currently available.
- Cost:** Lower life cycle cost than Lithium Primary cells with increased energy density.
- Reliability:** Ready power on demand.
- Serviceability:** Rapid mechanical refueling.
- Safety:** Electrolyte immobilized and dry during shipment and prior to use. No toxic substances.

PHYSICAL CHARACTERISTICS

- Capacity:** 2.85 kWh at 34 h rate
24 VDC or 12 VDC Output
5 Amp peak or 3.5 Amp continuous rating at 24 VDC
- Mass:** Operating — 6.1 kg (13.4 lbs.) ♦ Shipping — 3.9 kg (8.6 lbs.)
- Environment:** -18°C to +40°C
- Refueling:** Casing and Controls — reusable in field ♦ Fuel Cell Stack — recycled at depot
- Activation:** Add 2.2 L water from available source — (tap water, lake or river water, seawater, polluted water).



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