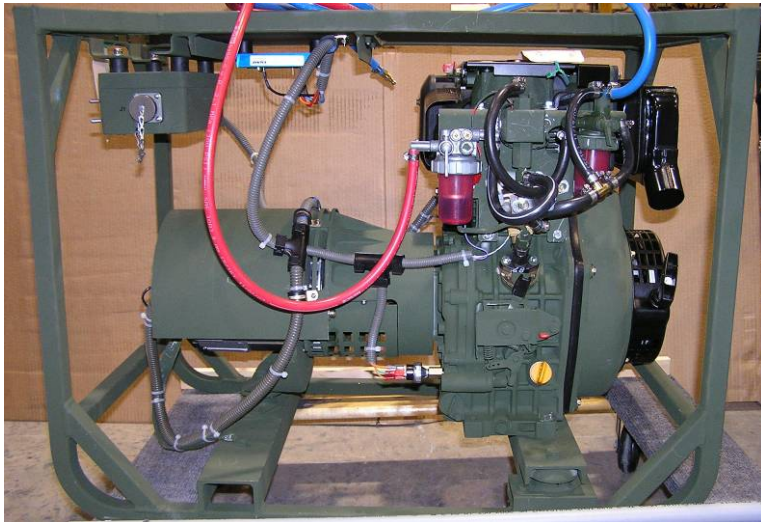




Battery Charger Auxiliary Power Unit

3.5kW 28 VDC Open Frame Battery Charger Auxiliary Power Unit (BAPU)

This open frame, heavy fuel generator set provides a full 3.5kW military rated 28VDC power supply @ 130° F suitable for APU use and battery charging under extreme temperatures. The unit has redundant local and remote controls, a self bleeding fuel system for vehicle or remote fuel tank interconnections. Based on our 2kW military heritage, this unit provides a simple power source that is lightweight yet highly reliable and easy to maintain.



Battery Charger Auxiliary Power Unit (BAPU)

**Regulated adjustable output:
26.5 VDC to 29.5VDC
Suitable for charging 24VDC
battery systems
Hawker
Optima
Etc.**



Remote Control Assembly

| ELECTRICAL RATINGS | |
|-------------------------------|-------------------------------|
| Output Voltage | 24VDC (28VDC) |
| Output power | 3500W at 28VDC |
| SIZE and WEIGHT | |
| Length | 33" |
| Width | 21" |
| Height | 25" |
| Weight | 201 lbs, Dry. |
| Operating Environment. | |
| Temperature Range | -51 to 130° F (-46 to +50 °C) |
| Incline Angle | 15° max. |

- Mil-Std-1332B Type 1 Tactical, Class 1, Mode IV
- Mil-Std-810E TM 510.3 Blowing Sand and Blowing Dust
 - Operating with Enhanced Air Filter System
- Mil-Std-810E TM 514.4 Transportation/Mission Vibration
 - Road Test (1000 miles)
- Mil-Std-705C TM 608.1 Electrical Performance



Battery Charger Auxiliary Power Unit

Unit Specification

| ENGINE | |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Manufacturer | Yanmar |
| Model | L 100V |
| Engine Type: | Air cooled, 4 cycle, Vertical Cylinder |
| Fuel: | Diesel |
| Number of Cylinders: | 1 |
| Total Displacement (cc): | 435 |
| Combustion Type: | Direct Injection |
| Aspiration: | Natural Aspiration |
| Valves per Cylinder: | 2 |
| Rated Speed: | 3600 rpm |
| Net Intermittent Hp ([kW] / rpm): | 9.1 [6.8] / 3600 |
| Net Continuous Hp ([kW] / rpm): | 8.3 [6.2] / 3600 |
| Starting System: | 24 V Electric |
| Decompression System: | Manual Type with Auto-return Lever |
| Charging System: | 24 Volt |
| Electric Stop Device: | Fuel Stop Solenoid |
| Lubrication System: | Pressure Lubrication with Trochoid Pump |
| Engine Oil Pan Capacity | Dipstick Upper Limit =1.7 qt (1.6L) Dipstick Lower Limit = 1.06 qt (1.0L) |
| Exhaust System: | Expansion Silencer with Cover |
| Air Cleaner: | Dry Type with Paper Element Filter |
| Type of Fuel | DL-2, JP5, or JP8 |
| Fuel Consumption Rate | 4.64 gal/8.0 hrs @ 100% load |
| Max. Distance for Fuel Lines (Fuel Source to Fuel Pump) | 72 inches |

Accessory Equipment

Also available from Dewey is the **Enhanced Air Filtering System** that enables the BAPU to operate in high dust and sand environments. The Enhanced Air Filter System consist of a pre-filter assembly, a canister filter and a 10 foot hose that allows the operator to locate the Enhanced Air Filtering System in the optimum location (user selected) to enhanced the operation of the BAPU in high dust and sand environments. This system is designed for field installation and is packaged and shipped with the BAPU.

A **500 hour service kit** is available. This kit provides the filters and consumables that are required during the operation of the BAPU during any 500 hour period. The kit is outfitted for the Enhanced Air Filtering Systems requirements, too.

Usages:

- **APU DC Power**
- **Portable Battery Charging Station**

Contracts:

M67854-07-D-5064 -USMC

POC: Bob McKenzie
Team Leader, Mobile Power Team
PM - Expeditionary Power Systems
Marine Corps Systems Command
Quantico, VA 22134-6050
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