Auxiliary Power Unit 6 kW (Electric) 8 kW (Hydraulic)

KEY FEATURES:

- Electrical Output: 6 KW 28 VDC

- Hydraulic Output: 8 KW (9 gpm @ 1800 PSI)

- Air Cooled Engine

- PM Generator

- Low Fuel Consumption

- CANbus Communication

GENERAL PRODUCT DESCRIPTION:

Our newly development and improved Auxiliary Power Unit is designed to provide electrical and hydraulic power to heavy vehicles in the field. The APU provides backup hydraulic and electrical power to the M88A2 Hercules Heavy Recovery Vehicles. The APU provides power for refueling and fuel transfer, as well.

The APU can also be used as a portable 28 VDC and a Hydraulic power source.
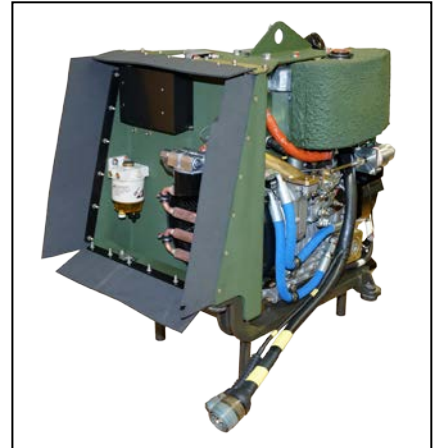
The APU has three operational modes:

1. Idle Mode for low noise, fuel consumption -standby condition.

2. Generator Mode for charging battery packs.

3. Hydraulic Mode to support the vehicle's hydraulic power needs.

A Permanent Magnet generator along with the Hydraulic pump are mounted on the engine's flywheel of a 2G40-Hatz two cylinder air cooled diesel engine. No belts, chain, or additional bearings are needed.

The Electronic Control Module (ECM) provides manages and functions of supplied voltage or current, idle speed, start/stop, protection, and diagnostics via the CANbus.

Auxiliary Power Unit 6 & 8 kW

Overall APU Specifications:

Exterior Dimensions (L x W x H)..	800 x 660 x 830 mm
Gross Weight ………………………….....................……………	195 kg~
Electrical Output...….....	6 kW @ 28 VDC
Hydraulic Output...…	8.0 KW (9 GPM @ 1800 PSI)
Rated Current………………………………………………………..	210A @28 VDC
Engine Type...….....	Hatz Diesel 2G40
	Two Cylinder Air Cooled
Fuel Type (Diesel)…………………………...……………………..	JP8, DF-1, DF-2, DF-A (Including NATO fuels: F-34, F-35,F-44 & F-54)
Fuel Consumption……………………………………….……...……	2.27 ~ Liter per hour

Generator System:

Type Alternator...…...	Internal Rotor Permanent Magnet
Alternator Speed ………………………………………………………	variable 2200 - 3000 rpm for 0 to 6 KW
Output Voltage (Nominal)...…...	28 VDC

Operating Parameters:

Temperature ……………………………………………………………	-32 ^{o}C to +55 ^{o}C
Altitude…………………………………………….………………..	Sea level to 1,200 m
Sand and Dust.………………………………………………………..	Per MIL-STD-810F
EMI….…………………………………………………………………	Per MIL-STD-461E
Protections…………………………………………………………………	Reverse polarity, Over current, Over voltage, Over speed, Over temp, Low oil pressure, Emergency kill switch.

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