



5 kW 28V DC Auxiliary Power Unit

P/N: 96-9000



MEP-952B 5kW APU Installed on M577 Command and Control Vehicle

With more than 3,000 fielded since 1996, the 5kW has an outstanding track record for performance and durability. The armor plated APU generates a maximum output of 6kW of clean 28 Volt DC power. A highly reliable combination of two outstanding components, the Farymann 43F engine and a C.E. Niehoff alternator are direct coupled without pulleys or belts. Originally fielded by PM-MEP and assigned NSN 6115-01-452-6513, the APU was previously manufactured by Goodman Ball, Inc. Dewey Electronics acquired the product line in early 2013 and is proud to be supporting and manufacturing new APUs.

The APU is equipped with an electric start or manual hand crank. Starting the APU is accomplished using the standard control panel on the armored housing. An optional remote control panel allows the APU to be started from within the vehicle.

Quick disconnect fuel lines allow connection to the vehicle fuel supply. The APU operates on diesel and JP-8 fuels and provides 28V DC output at the NATO Slave connector. Other output power terminations are available upon request.

ELECTRICAL RATINGS	
Output Voltage	28V DC
Continuous Output Power	5000W @ 4000 ft
Maximum Output Power	6000W @ Sea Level/95°F
SIZE, WEIGHT, AND COLOR	
Length	38.0" (96.5 cm)
Width	30.5" (77.7 cm)
Height	16.9" (42.9 cm)
Weight	540 lb (243 kg) Dry
Color Options (specify when ordering)	Green or Tan
OPERATING ENVIRONMENT	
Temperature Range Nominal	-25°F to 120°F (-32°C to 49°C)
Temperature Range Extreme Cold	-25°F (-32°C)
Temperature Power Derating	3%/18°F Above 95°F
Altitude	Sea Level to 8000 ft
Altitude Power Derating	17% @ 8000 ft Above Sea Level
Inclination	27° Max.
POWER QUALITY	
Regulation	Less than 1%
Application of Rated Load - Transient	15% Dip with Batteries Connected
Application of Rated Load - Recovery	1 second
Rejection of Rated Load - Transient	15% Rise with Batteries Connected
Rejection of Rated Load	0.5 second
DC Ripple	Less than 5.5%
ENGINE	

The Dewey Electronics Corporation

www.deweyelectronics.com

4/15/2013



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Manufacturer	Farymann
Model	43F
Engine	Air-cooled, 4 Cycle, Vertical Cylinder
Number of Cylinders	1
Starting System	24V DC Electrical/Manual Hand Crank Starter
Type of Fuel	DL-1, DL-2, or JP-8
Fuel Consumption Rate	0.42 gal/hr @ 100% Load
Max. Distance for Fuel Lines (Fuel Source to Fuel Pump)	72 inches (Check this based on fuel pump used)
ALTERNATOR	
Manufacturer	C.E. Niehoff N-1379
Type	Brushless
ELECTRICAL CHARACTERISTICS	
Voltage Connections	28V DC, NATO Slave
Voltage	28V DC per Mil-Std-1275
Max. Amperes	300 A
PROTECTIVE DEVICES	
Low Oil Pressure	Less than 15 psi/Engine Shutdown
High Temperature	Fault Engine Shutdown
Emergency Shut Down Switch	Remote Control Panel Only
Battle Short Switch	Remote Control Panel Only
INSTRUMENTATION & INDICATORS	
Hour Meter (APU Local)	Electro-mechanical
Run/Prime	Green LED
Start	Green LED
Low Oil Pressure	Red LED
High Temperature	Red LED
APU ON	Green LED
Voltmeter	Analog (Remote Control Panel Only)
PERFORMANCE CHARACTERISTICS	
Noise	69 dBA @ 7 meters (23 ft)
Humidity	0 to 100% RH Mil-Std-705C, Method 711.1
EMC	Mil-Std-461C, UM04 RE02, CE04, RS03
EMP	Protected
Ice Glaze/Wind	-10°F to +32°F with 0.5 inch of Ice Wind 73ft/s ²
Salt Spray	Mil-Std-810E, Method 509.2
Sand/Dust	Mil-Std-810 Method 510.2, Procedure II
Storage Temperatures	-65°F to 160°F
Transportation/Mission Vibration	Mil-Std-810E, Method 514.4
Drop Test	Mil-Std-705C, Method 740.3

Optional Equipment: Remote Control Panel and Cable

Spares and Repairs: Spares and Repair parts are available from Dewey Electronics by e-mailing dewey@deweyelectronics.com with Spare Parts in the subject line.