



# 2.0 kW 28V DC Portable Diesel Generator

## P/N: 95-501



**28V DC 2.0 kW**



**NSN: 6115-01-435-1567**

The Dewey Model -501A (PM- MEP Model 95-501A) is a portable, highly reliable, lightweight unit that provides 2000 Watts of 28V DC power and has established itself as the mainstay of portable power for military applications worldwide. This open frame configuration allows it to be easily picked up, stacked, or transported by any military vehicle. This configuration contributes to the ease of service and maintenance.

Equipped with a manual recoil starter and the ability to be electrically started from their NATO Slave connector, these units are used throughout the military where pure military power is a requirement or when portability is a necessity. Now these units are available directly from Dewey Electronics.

Since 1996 Dewey Electronics has been manufacturing and supplying the 2kW Military Tactical Generator to the Department of Defense PM-Mobile Electric Power (PM-MEP). We have fielded over 17,000 MTGs in an open frame configuration.

ELECTRICAL RATINGS	
Output Voltage	28V DC
Output Power	2.0 kW @ 4000 ft/ 95°F
SIZE AND WEIGHT	
Length	29.5"
Width	16"
Height	21.7"
Weight	140 lbs with 4 hours of fuel
OPERATING ENVIRONMENT	
Temperature Range Nominal	-25°F to 120°F (-32°C to 49°C)
Temperature Range Extreme Cold	-46°F (starting -40°F)
Temperature Power Derating	3%/18°F above 95°F
Altitude	Sea level to 8000 ft
Altitude Power Derating	3.5%/1000 ft above 4000 ft
Inclination	15° Max.
POWER QUALITY	
Regulation	4%
Short Term Stability Mil-Std-705, Test Method 608.1	2% bandwidth
Long Term Stability Mil-Std-705, Test Method 608.2	2% bandwidth
Application of Rated Load - Transient	30% dip
Application of Rated Load - Recovery	1 second
Rejection of Rated Load – Transient	40% rise
Rejection of Rated Load	0.5 seconds
DC Ripple	Less than 7%

The Dewey Electronics Corporation

[www.deweyelectronics.com](http://www.deweyelectronics.com)

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ENGINE	
Manufacturer	Yanmar
Model	L48AE
Engine Type	Air-cooled, 4 cycle, vertical cylinder
Number of Cylinders	1
Starting System	Manual recoil pull starter/ 24 V DC electrical via NATO Slave Receptacle
Decompression System	Manual type with auto-return lever
Type of Fuel	DL-1, DL-2, or JP-8
Fuel Consumption Rate	0.333 gal/hr @ 75% full load
Fuel Tank Capacity	1.6 gal
ALTERNATOR	
Manufacturer	Balmar
Type	Brush
ELECTRICAL CHARACTERISTICS	
Voltage Connections	28V DC, 2 Wire
Voltage Adjustment	26.6 -32.0 V DC
PROTECTIVE DEVICES	
Circuit Breaker	Overload/short circuit trip/engine shutdown
Low Oil Pressure Switch	Less than 15 psi/engine shutdown
INSTRUMENTATION	
Voltmeter	22-35 V DC, +/- 3%
Ammeter	0-125 % of rated load, +/- 5% rated load
Hour Meter	Electro-mechanical
PERFORMANCE CHARACTERISTICS	
Noise	79 dBA @ 7 meters (23 ft.)
Humidity	0 -100%
Fungus	Drip proof electronics enclosure
Salt Spray	5% Salt Solution
Sand/Dust	1.4 g/m <sup>3</sup> 32.2km/h (20mph)
Solar Radiation	355 BTUs/ft <sup>2</sup> per hour
Storage Temperatures	-65°F to 160°F
Rain	100 mm (3.9 in)/ hr.

The 28V DC Military Tactical Generator is available in Forest Green or Desert Tan color. The Technical Manual shipped in the overpack is also available on the Dewey Electronics web site, URL: [www.deweyelectronics.com](http://www.deweyelectronics.com) .

The NSN is fully supported within the US DoD Logistic System. Spare and repair parts are available from Dewey Electronics by contacting us by phone at 800-526-5174 within the USA, worldwide at 201-337-4700, or by e-mail at [dewey@deweyelectronics.com](mailto:dewey@deweyelectronics.com) with "Spare and Repair Parts" in your subject line.

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