



2.0 kW 120V AC Portable Diesel Generator

P/N: 95-531



120V AC 2.0 kW



NSN: 6115-01-435-1565

The Dewey Model -531A (PM-MEP Model 95-531A) is a portable, highly reliable, lightweight unit that provides 2000 Watts of 120V 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	120V AC	
Output Power	2.0 kW @ 4000 ft/ 95°F	
SIZE AND WEIGHT		
Length	29.5"	
Width	16"	
Height	21.7"	
Weight	152 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%/1000ft above 4000 ft	
Inclination	15° Max.	
POWER QUALITY		Voltage
Regulation	5.6%	4%
Voltage Modulation		2%
Short Term Stability Mil-Std-705, Test Method 608.1	3% bandwidth	2% bandwidth
Long Term Stability Mil-Std-705, Test Method 608.2	3% bandwidth	4% bandwidth
Application of Rated Load - Transient	8 % undershoot	30% dip
Application of Rated Load - Recovery	4 seconds	3 seconds
Rejection of Rated Load – Transient	10% overshoot	30% rise
Rejection of Rated Load	5 seconds	3 seconds
Maximum Waveform Deviation Factor		Less than 16%
Individual Waveform Deviation Factor		Less than 15%

The Dewey Electronics Corporation

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	Baldor
Type	Brush
ELECTRICAL CHARACTERISTICS	
Voltage Connections	120V AC, Single Phase, 2 Wire
Voltage Adjustment	114 -126V AC
PROTECTIVE DEVICES	
Circuit Breaker	Overload/short circuit trip/engine shutdown
Low Oil Pressure Switch	Less than 15 psi/engine shutdown
INSTRUMENTATION	
Voltmeter	100-130 V AC, +/- 3%
Ammeter	0-125 % of rated load, +/- 5% rated load
Frequency	55-65 Hz +/- 1% rated frequency
Hour Meter	Electro-mechanical
PERFORMANCE CHARACTERISTICS	
	Per Mil-Std-633
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 ³ 32.2km/h (20mph)
Solar Radiation	355 BTUs/ft ² per hour
Storage Temperatures	-65°F to 160°F
Rain	100 mm (3.9 in)/ hr
EMIC	Mil-Std-461C

The 120V 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 .

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 with "Spare and Repair Parts" in your subject line.

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