



220V 60Hz AC Portable Diesel Generator

P/N: 100847-501



220V 60Hz 1.8kW



Front Control Panel

Designed and manufactured by Dewey Electronics Corporation, this portable generator functions as an 1800W, 220V AC power source. This unit operates as an independent AC power source and is based on our successful 2kW Military Tactical Generator design. Its open frame configuration allows it to be easily lifted 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 with a connection available for a user supplied 12 volt battery, these units are used where pure 220V AC power is a requirement or when portability is a necessity.

APU Configuration

This portable generator is also equipped with rugged mounting feet that make it ideally suited for installation on a trailer or vehicle when used as an auxiliary power supply (APU). The enhanced air filter system consists of a Donaldson medium duty filter assuring operation in a dusty and sandy environment. The anti-wet stacking device mounted on the frame of the generator provides a 500 watt load to the alternator when end user loads are less than 500 watts and will automatically switch off when end user loads exceed 500 watts.

Control Panel

The indicators and controls on the Control Panel assembly include:

- Elapsed Time Meter - Measures operating time in hours when the APU is operational
- AC Voltmeter – Indicates output voltage of the generator set
- Frequency Meter – Indicates generator set output frequency. Normal reading is 60Hz.
- Load Meter – Indicates the generator set load current as a percentage of its rated current
- Fuses – Protect various components in the control panel
- Voltage Adjust – Adjusts the generator set voltage from 209V AC to 231V AC
- Convenience Outlets – Dual outlets provide 8.2 Amps of 220V AC power at 60Hz
- Status Indicators:
 - High Oil Temperature (Red) - is illuminated when temperature is higher than 124.7C
 - Low Oil Pressure (Red) - is illuminated when oil pressure falls below the 15psi
 - Over/Under Voltage (Red- Blinking) - is illuminated when voltage falls below 198V AC or rises above 242V AC

The Dewey Electronics Corporation

www.deweyelectronics.com

4/1/15



220V 60Hz AC Portable Diesel Generator

P/N: 100847-501

ELECTRICAL RATINGS	
Output Voltage	220V AC (+/-5.0V) @ 60Hz
Output Power	1800W (+/-200W) @ 70° F continuous
Quality Power	<15% deviation factor
SIZE and WEIGHT	
Length	30.14"
Width	20.50"
Height	31.53"
Weight	~180 lb wet
OPERATING ENVIRONMENT	
Temperature Range	-5°C to 50°C
Incline Angle	15° maximum
ENGINE	
Manufacturer	Yanmar
Model	L 48
Engine Type	Air-cooled, 4-cycle, vertical cylinder
Fuel:	Diesel
Number of Cylinders	1
Starting System	12V Electric
Decompression System	Manual type with auto-return lever
12 Volt Battery Required	Not Included
Charging System	Not Included
Electric Stop Device	Fuel stop solenoid
Exhaust System	Expansion silencer with cover
Air Cleaner	Donaldson medium duty air filter
FUEL SYSTEM	
Type of Fuel	DL-1, DL-2, or JP-8
Fuel Consumption Rate	~ 4.8 hours @ 100% load
Fuel Tank Capacity	1.6 gal (6.1 L)
ALTERNATOR	
Type	2-Wire, brushed, single phase
Voltage Output	220V AC +/- 1.0 V DC
Cooling	Forced air
Lubrication Requirements	None (sealed bearings)
Drive Type	Direct coupling

The 220V AC Portable Generator is available in Forest Green or Desert Tan color. The Technical Manual is shipped in the overpack.

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.

The Dewey Electronics Corporation
27 Muller Road, Oakland, NJ 07436
Tel: (201) 337-4700 E-mail: dewey@deweyelectronics.com
www.deweyelectronics.com