



## 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 AC power and has established itself as the mainstay of portable power for military applications worldwide. Its open frame configuration allows it to be easily lifted and 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 the NATO Slave connector, these units are used throughout the military where pure military power is a requirement or when portability is a necessity.

Dewey Electronics has manufactured and fielded over 19,000 of these Military Tactical Generators for the Department of Defense PM-Mobile Electric Power (PM-MEP) as well as numerous other government and military customers.

The 120V AC 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 the subject line.

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GSA Contract #GS07F214BA



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| IDENTIFICATION DATA                                  |                                                                                                                                                                             |                        |                            |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|
| Description                                          | 2kW MTG Set, 60 Hz, DED, Tubular Frame                                                                                                                                      |                        |                            |
| Model                                                | MEP-531A                                                                                                                                                                    |                        |                            |
| NSN                                                  | 6115-01-435-1565                                                                                                                                                            |                        |                            |
| PHYSICAL CHARACTERISTICS                             |                                                                                                                                                                             |                        |                            |
| Dimensions LWH (in)                                  | 30 x 16 x 22                                                                                                                                                                |                        |                            |
| Wet Weight (lb)                                      | 158                                                                                                                                                                         |                        |                            |
| Engine                                               | Yanmar L48AE-DEG Diesel, 1 cylinder / 4 stroke, 4.2 horsepower @ 3600 RPM, air-cooled, 24V DC start from NATO slave receptacle, recoil pull starter                         |                        |                            |
| Instrumentation                                      | Voltmeter, load meter, hour meter, frequency meter                                                                                                                          |                        |                            |
| Fuels                                                | Diesel DL-1, DL-2, and JP-8                                                                                                                                                 |                        |                            |
| Fuel Capacity                                        | Fuel tank: 1.6 gal                                                                                                                                                          |                        |                            |
| PERFORMANCE CHARACTERISTICS                          |                                                                                                                                                                             |                        |                            |
| Power Rating                                         | 2kW, 1.0 pf @ 4000 ft / 95°F. 110% max power; De-rate: 1.3% / 328 ft from 4000 to 8000 ft                                                                                   |                        |                            |
| Environmental Capability                             | -40°F to 120°F, rain, humidity, altitude, sand / dust, rail transport, -65°F cold storage, salt spray, fungus, 15° incline                                                  |                        |                            |
| Protective Devices                                   | Trip circuit breaker for overload / short circuit; automatic shutdown for low oil pressure                                                                                  |                        |                            |
| Fuel Consumption                                     | 0.33 gph @ rated load                                                                                                                                                       |                        |                            |
| Human Factors                                        | MIL-STD-1474; 4-soldier portable; operable in chemical / arctic clothing                                                                                                    |                        |                            |
| Noise                                                | 79 dBA @ 7 meters (23 ft)                                                                                                                                                   |                        |                            |
| Reliability (MTBF)                                   | 818 hr                                                                                                                                                                      |                        |                            |
| Maintenance Ratio                                    | 0.033 - organization                                                                                                                                                        |                        |                            |
| ELECTRICAL CHARACTERISTICS                           |                                                                                                                                                                             |                        |                            |
| Voltage Connection                                   | 120 V, 1-phase, 2-wire                                                                                                                                                      |                        |                            |
| Voltage Adj. Range                                   | 114 to 126 V                                                                                                                                                                |                        |                            |
| Frequency Adj. Range                                 | ± 5.5%                                                                                                                                                                      |                        |                            |
| Electrical                                           | Drip proof generator enclosure, fungus & moisture treated, solid state voltage regulator, brush type 2-pole alternator, solderless connectors, Dewey Electronics alternator |                        |                            |
| ELECTRICAL PERFORMANCE                               |                                                                                                                                                                             |                        |                            |
| Electric Power Quality                               |                                                                                                                                                                             | Voltage                | Frequency                  |
| Regulation                                           |                                                                                                                                                                             | ≤ 4%                   | ≤ 5.6%                     |
| Voltage Modulation                                   |                                                                                                                                                                             | ≤ 2%                   |                            |
| Short Term Steady State Stability (30 sec)           |                                                                                                                                                                             | ≤ 2% bandwidth         | ≤ 3% bandwidth             |
| Long Term Steady State Stability (4 hr)              |                                                                                                                                                                             | ≤ 4% bandwidth         | ≤ 3% bandwidth             |
| Application of Rated Load (transient), Recovery Time |                                                                                                                                                                             | ≤ 30% dip<br>≤ 3 sec   | ≤ 8% undershoot<br>≤ 4 sec |
| Rejection of Rated Load (transient), Recovery Time   |                                                                                                                                                                             | ≤ 30% rise<br>≤ 3 sec  | ≤ 10% overshoot<br>≤ 5 sec |
| Motor Load                                           |                                                                                                                                                                             | Not rated              |                            |
| Max Waveform Deviation Factor                        |                                                                                                                                                                             | ≤ 16%                  |                            |
| Individual Waveform Harmonic                         |                                                                                                                                                                             | ≤ 15%                  |                            |
| EMI                                                  |                                                                                                                                                                             | Meets MIL-STD-461C     |                            |
| EMP                                                  |                                                                                                                                                                             | Not protected          |                            |
| OPTIONAL EQUIPMENT                                   |                                                                                                                                                                             |                        |                            |
| Auxiliary Fuel System                                |                                                                                                                                                                             | See TM 9-6115-673-13&P |                            |
| TECHNICAL MANUALS                                    |                                                                                                                                                                             |                        |                            |
| Description                                          | Army                                                                                                                                                                        | Air Force              | Marine Corps               |
| Operator, Unit, DS/GS, Parts                         | TM 9-6115-673-13&P                                                                                                                                                          | TO 35C2-3-512-1        | None                       |