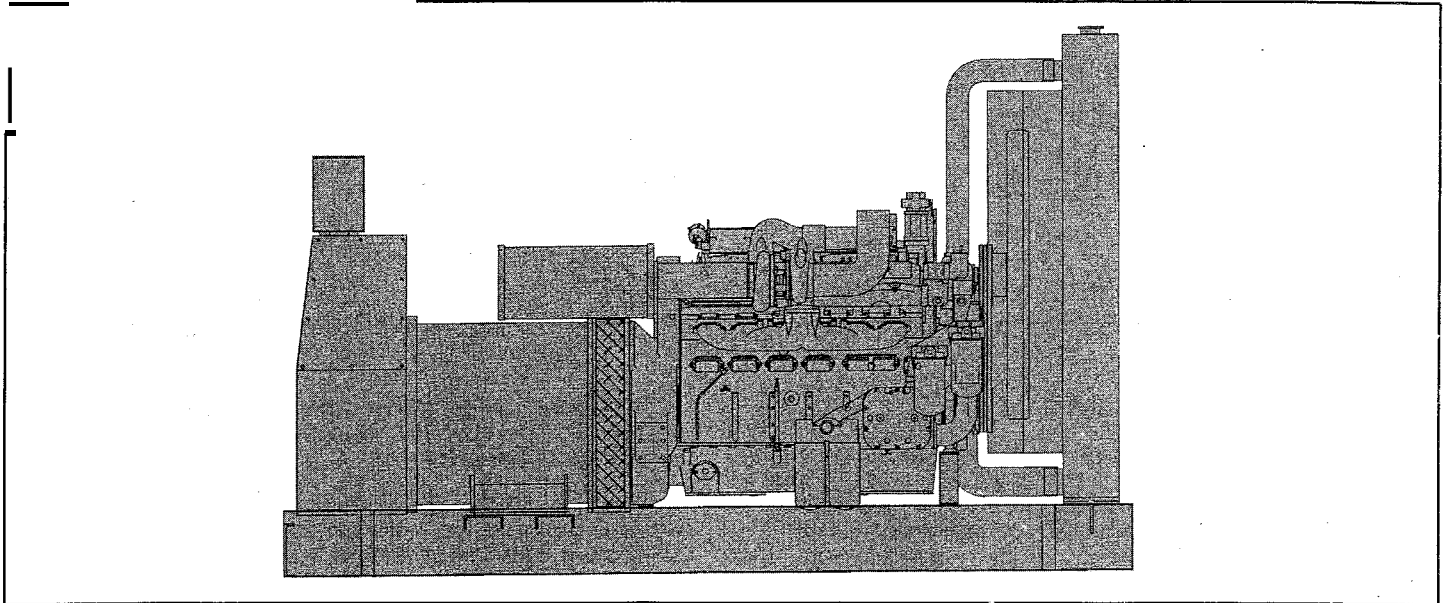


CORPORATION

**500 KW**

# DMT D Series Generator Sets

ion



Specifications

Model:

Detroit Diesel 12V71 TA(7123-7406) 750 HP @ 1800 RPM (640 HP @ 1500 RPM)  
10/12 Lead Brushless

Dry Type, Heavy

Duty 24 VDC

Alternator

24 VDC Starter

Dry Weight: 8690 lbs (3941 kg)

Rated Output*	60 Hertz	50 Hertz
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Continuous Standby	500	430
KW @ 0.8PF (KVA)	(625)	(538)

Prime Power	425	370
KW @ 0.8PF (KVA)	(531)	(463)

Approximate Fuel Consumption at Full Load	60 Hertz	50 Hertz
U.S. Gal/Hr (liter/Hr)	38.2 (145)	32.9 (125)

Operating Cycles	2
Number of Cylinders	12
Bore and Stroke	4.25 x 5.0 in (108 x 127 mm)
Piston Displacement	852 in <sup>3</sup> (14.0 liters)

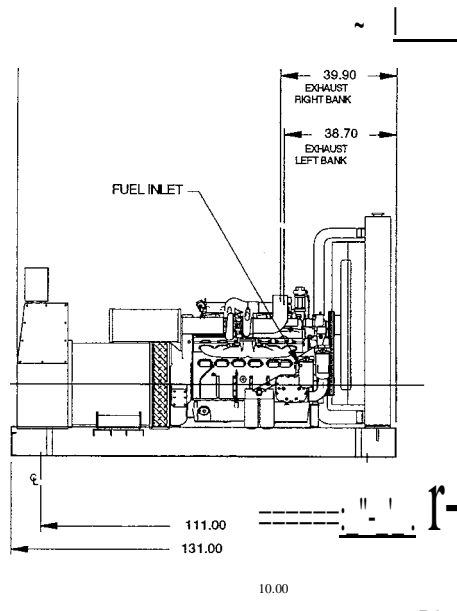
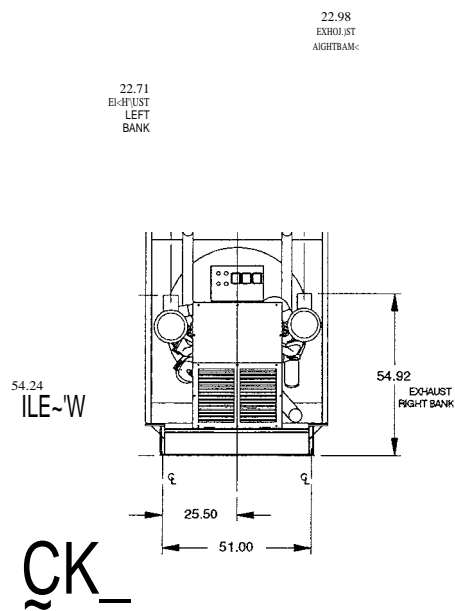
Standby Rating is applicable for supplying electrical power in the event of normal utility power failure. No overload capability is available for this rating. This rating may be used for continuous service for as long as the emergency may last. This rating conforms with the BS 649: 1958 overload rating and DIN "B" 6270 .

- Filters: Lubricating Oil and Fuel
- Generator: Brushless Revolving Field, 4 Pole with Solid State Voltage Regulator
- Instruments: Unit Mounted with I/C Meters, Engine Instruments, Shutdown Indicators and Automatic Start/Stop
- Radiator: High Ambient with Blower Fan and Guard
- Safety Controls: Low Oil Pressure, High Coolant Temperature, Engine Overspeed and Overcrank
- Subbase: Full Length, All Welded Structural Steel Construction

.. Prime Power Rating is applicable for supplying electric power in lieu of commercially purchased power. Intermittent Overloads up to the Standby Rating are allowable. This rating may be used for continuous service in commercial applications and it conforms with BS 649:1958 and DIN "a" 6270 for generator set applications.



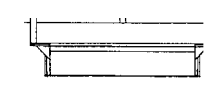
THE PRESIDENT'S AWARD FOR EXCELLENCE IN EXPORT



f=::; t'00 inches (em)



81.62



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**Generator Design Features**

**Construction:** Conforms with National Electrical Manufacturers Association NEMA MG1-22, IEC 34-1, IEEE, and British Standards BS-5000. Canadian Standards Association C22.2 listing available on request as required.

**Permanent Magnet Generator (PMG) Excitation:** Provides 300% short circuit excitation support for a minimum of 10 seconds and isolates the regulator from non-linear loads.

**Digital Voltage Regulator:** Includes digital *voltage* regulation for superior accuracy, 0.25% regulation, adjustable *volts/hertz* operation, underspeed protection, 3 phase RMS sensing, paralleling, overexcitation and *voltage* protection as standard.

**Class H Insulation System:** All windings are 100% copper with full Class H insulation for optimal thermal performance, long insulation life, and superior moisture protection in harsh environments. Includes multiple dips and bakes of non hygroscopic varnish with a final epoxy coat for protection

against harsh environments. (Vacuum pressure impregnation is available as an option.)

**EMI Suppression:** Internal electromagnetic interference filter meets MIL-STD-461 C, Part 9 for radiated and conducted emissions susceptibility.

**Unirotor Construction:** Features a single piece four pole lamination, coupled with a die cast rotor core and ammortisseur winding. The field winding is layer wound with thermosetting epoxy for high mechanical and electrical integrity. Main windings are 2/3 pitch to eliminate third harmonic neutral currents

**Bearings:** Double sealed, ball bearings prelubricated for the life of the bearing and sized for a minimum of B-10 life of ~100,000 hours. {

**Cooling:** High efficiency aluminum alloy fan maximizes heat transfer and minimizes hot spot differentials for longer winding life.

**Large end mounted conduit box:** Allows load connections from all sides, top or bottom.

**WAUKESHA, WISCONSIN 53186 USA**  
**PHONE (414) 549-0014**  
**FAX (414) 549-3241**

190 to 208  
 380 to 416

\* Voltages Available:  
 3 Wire Y

208 to 240 380 to 480

120/208 to 139/240 220/380 to  
277/480

110/190 to 120/208 220/380 to  
 240/416

2494 N.HWY 164