MODEL: TD750

Shown with optional equipment.

Ratings Range — 60 Hertz Operation

Standby:	kW	750
	kVA	938
Prime:	kW	675

FEATURES

- Single source responsibility for the generator set and accessories.
- Prototype and production tested to insure one step load acceptance per NFPA 110.
- Two year limited warranty on generator sets and accessories. Extended warranties also available.
- Unit conforms to CSA, NEMA, EGSA, ANSI and other standards.
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field generator with class H insulation.
- Heavy duty steel base with integral vibration isolators.
- EPA Tier 3 Certified Engine.
- Tier 3 EPA-Certified for Stationary Emergency Applications.

GEN SET RATINGS

Genset Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	130° Rise Standby Rating		105° Rise Prime Rating	
					kW / kVA	Amps	kW / kVA	Amps
TD750D	574RSL4037	277/480	3	60	750/938	1128	675/844	1015
		139/240	3	60	750/938	2256	675/844	2030
		254/440	3	60	750/938	1230	675/844	1107
		127/220	3	60	750/938	2461	675/844	2215
		240/416	3	60	750/938	1302	675/844	1171
		120/208	3	60	750/938	2603	675/844	2342
		120/240	3	60	750/938	2256	675/844	2030
		219/380	3	60	670/838	1273	603/754	1146
		120/240	1	60	454/454	1891	409/409	1704

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.
STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.
PRIME POWER RATINGS: Prime power ratings apply to installations where utility power in unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.
GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) elevation above 1000m (3279 ft.)Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).

Application and Engineering Data

Engine	
Manufacturer	MTU
Model	12V 2000 G85TB
Type	4-Cycle
Arrangement	12-V
Displacement: L (in³)	23.9 (1,457)
Bore: cm (in)	13 (5.1)
Stroke: cm (in)	15 (5.9)
Compression Ratio	16:1
Rated RPM	1,800
Engine Governor	Electronic Isochronous (ADEC)
Maximum Power: kWm (bhp)	890 (1,193)
Speed Regulation	±0.25%
Air Cleaner	Dry

Liquid Capacity (Lubrication)	
Total Oil System: L (gal)	77 (20.3)
Engine Jacket Water Capacity: L (gal)	110 (29.1)
After Cooler Water Capacity: L (gal)	20 (5.3)
System Coolant Capacity: L (gal)	274 (72.4)

Electrical	
Electric Volts DC	24
Cold Cranking Amps Under –17.8° C (0° F)	1,750

Fuel System	
Fuel Supply Connection Size	3/4” NPT
Fuel Return Connection Size	1/4” NPT
Maximum Fuel Lift: m (ft)	3 (10)
Recommended Fuel	Diesel #2
Total Fuel Flow: L/hr (gal/hr)	480.7 (127)

Fuel Consumption	
At 100% of Power Rating: L/hr (gal/hr)	218.8 (57.8)
At 75% of Power Rating: L/hr (gal/hr)	164.6 (43.5)
At 50% of Power Rating: L/hr (gal/hr)	111.3 (29.4)

Cooling Radiator System	
Ambient Capacity of Radiator: °C (°F)	40 (104)
Maximum Restriction of Cooling Air, Intake, and Discharge Side of Rad: kPa (in H20)	0.12 (0.5)
Water Pump Capcity: L/min (gpm)	833 (220)
After Cooler Pump Capacity: L/min (gpm)	257 (68)
Heat Rejection to Coolant: kW (BTUM)	315 (17,913)
Heat Rejection to After Cooler: kW (BTUM)	270 (15,354)
Heat Radiated to Ambient: kW (BTUM)	84.5 (4,805)

Air Requirements	
Aspirating: m³/min (SCFM)	66 (2,331)
Air Flow Required for Radiator	
Cooled Unit: m³/min (SCFM)	1,132 (39,997)
Remote Cooled Applications;	
Air Flow Required for Dissipation of Radiated Gen-set Heat for a Max of 25° F Rise: m³/min (SCFM)	307 (10,840)

*Air density = 1.184 kg/m³ (0.0739 lbm/ft³)

Exhaust System	
Gas Temperature (Stack): °C (°F)	580 (1,076)
Gas Volume at Stack Temperature: m³/min (CFM)	174 (6,145)
Maximum Allowable Back Pressure: kPa (in H20)	8.5 (34.1)

Generator Controller Options

- Dashboard Style LCD Panel
- NFPA 110
- SAE J1939 ECU Communications
- Load Share Synch Features
- Metering, Data Trending, Alarms
- Engine Status Indicators
- Fuel Consumption
- CanBus, ModBus
- Ethernet Communications
- Remote Contacts Form C, RS 232/485

- Internet Bridge Module
- Internet Connection & Web Browser
- Remote Access & Control
- InteliMonitor Network Management
- SNMP, PC SCADA
- Site Overview & Statistic Settling
- Automatic Downloads, Report Writer
- Receive Emails or IM Text
- CAT 5e, RS232/485, RJ 45
- Ethernet or Dial Up Connection
- Fleet Scalability

Alternator Specifications

Manufacturer	Marathon
Type	Ext. Voltage Regulated, Brushless
Gen Frame	MAGNAMAX
Insulation	NEMA
Material	Class H
Temperature Rise	130 °C, Standby
Hertz	60
Phase	3
RPM	1800
Exciter	Rotating
# Leads	12 Reconnectable or 4 Single Phase
PF	0.8
Ambient	40°C
Coupling Single Bearing	Flexible
Amortisseur Windings	Full
Cooling Air Volume	250 CFM
Peak Motor Starting	30% Voltage Dip, 2600 kVA
Voltage Regulation no-load and full-load	3 Phase Sensing 1/2%

- NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting.
- Sustained short-circuit current of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Linkboards
- Optimized Electrical Design
- Enhanced Ventilation
- Fully Guarded
- Heavy Duty Bearings

STANDARD FEATURES

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack
- Battery Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty
- Owners Manual

AVAILABLE ACCESSORIES

OPEN UNIT

- ☐ Narrow Skid Base
- ☐ Radiator Duct Flange
- ☐ Ship Loose Flex Exhaust
- ☐ Ship Loose Critical Silencer

ENCLOSED UNIT

- ☐ Wide Skid Base
- ☐ Standard Enclosure With Internal Silencer
- ☐ Sound Attenuated Enclosure With Silencer
- ☐ Load Center With Lights and GFI Receptacle
- ☐ Sub-Base Fuel Tank

CONTROLLER

- ☐ InteliLite Model IL-NT-MRS19
- ☐ Ethernet Bridge
- ☐ Remote Annunciator

MISCELLANEOUS

- ☐ Flexible Fuel Lines
- ☐ Coolant Drain Kit
- ☐ Water Jacket Heater
- ☐ Oil Pan Heater
- ☐ Generator Strip Heater
- ☐ Battery
- ☐ Battery Charger
- ☐ Pad Type Battery Heater
- ☐ Battery Heater Blanket with Thermostat
- ☐ Line Circuit Breaker

WARRANTY

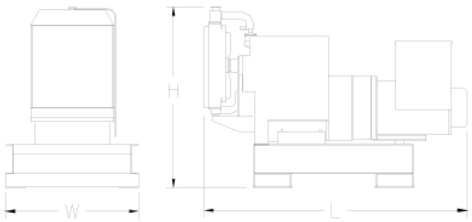
- ☐ 3 Year Warranty
- ☐ 5 Year Warranty

APPROVALS AND LISTINGS

- ☐ UL Standard 2200

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H,: 170 in. x 63 in. x 86.5 in.
WEIGHT: 12328 lbs.
Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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