

Cargo Equipment Solutions, Inc.

12301 SW 128 Court, Unit 104, Miami, Florida 33186
 Phone: 305-259.4537 / 305-259.4538 / Fax: 305-259.4539 / U.S. Toll Free: 877-813.0251
 Email: sales@cargoequipsolutions.com

Diesel Generating Set M2750

| MODEL | M2750 |
|----------------------|------------------|
| Standby Power (60Hz) | 2500KW / 3125KVA |
| Prime Power (60Hz) | 2250KW / 2813KVA |

Standard Features

General Features:

- Engine (MTU 20V4000G43)
- Radiator 40C max, fans are driven by motor, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter
- Permanent Magnet Generator (PMG)
- Standard control panel
- Four 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler.
- User manual.



PHOTO FOR REFERENCE ONLY

Generator Ratings

| Voltage | HZ | Phase | P.F (COS ϕ) | Standby Amps | Standby Ratings (KW/KVA) | Prime Ratings (KW/KVA) |
|---------|----|-------|--------------|--------------|--------------------------|------------------------|
| 480/277 | 60 | 3 | 0.8 | 3759 | 2500/3125 | 2250/2812 |
| 460/266 | 60 | 3 | 0.8 | 3922 | 2500/3125 | 2250/2812 |
| 440/254 | 60 | 3 | 0.8 | 4101 | 2500/3125 | 2250/2812 |
| 416/240 | 60 | 3 | 0.8 | 4337 | 2500/3125 | 2250/2812 |

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Cargo Equipment Solutions, Inc provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty on equipments are: One (01) year or 1000 Hours of standard working condition, what ever comes first. Service and parts are available from Cargo Equipment Solutions, Inc.

Specifications may change without notice.

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ENGINE DATA

| | |
|----------------------------------|----------------------------------|
| Manufacturer / Model: | MTU/20V4000G43 |
| Air Intake System: | Turbo, Water/Air Cooling |
| Fuel System: | Electronic Fuel Injection System |
| Cylinder Arrangement: | 20 in "V" |
| Displacement: | 95.4 L |
| Bore and Stroke: | 170*210 (mm) |
| Compression Ratio: | 16.5 |
| Rated RPM: | 1800 rpm |
| Max. Standby Power at Rated RPM: | 2739 KW |
| Governor Type: | ADEC |

Exhaust System

| | |
|----------------------|------------------------|
| Exhaust Gas Flow: | 564m ³ /min |
| Exhaust Temperature: | 460°C |
| Max Back Pressure: | 8.5kPa |

Air Intake System

| | |
|-------------------------|------------------------|
| Max Intake Restriction: | 5kPa |
| Burning Capacity: | 228m ³ /min |
| Intake Flow: | m ³ /min |

Fuel System

| | |
|--------------------------|-----------------|
| 100%(Prime Power) Load: | 537.35 Lts / Hr |
| 75%(Prime Power) Load: | 553.24 Lts / Hr |
| 50%(Prime Power) Load: | 585.00 Lts / Hr |

Oil System

| | |
|----------------------------|-----------------------|
| Total Oil Capacity: | 390 Lts |
| Oil Consumption: | 0.3% Fuel Consumption |
| Engine Oil Tank Capacity: | 340 Lts |
| Oil Pressure at Rated RPM: | 520 - 800 kPa |

Cooling System

| | |
|-------------------------|---------|
| Total Coolant Capacity: | 260 Lts |
| Max Water Temperature: | 79°C |
| Max Water Temperature: | 104°C |

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ALTERNATOR SPECIFICATION

General Data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

| | |
|-------------------------------------|---|
| Number of Phase: | 3 |
| Connecting Type: | 3 Phase and 4 Wires, ΔY type connecting |
| Number of Bearing: | 1 |
| Power Factor: | 0.8 |
| Protection Grade: | IP23 |
| Altitude: | $\leq 1000\text{m}$ |
| Exciter Type: | Brushless, self-exciting |
| Insulation Class, Temperature Rise: | H/H |
| Telephone Influence Factor (TIF): | < 50 |
| THF: | $< 2\%$ |
| Voltage Regulation, Steady State: | $\leq \pm 1\%$ |
| Alternator Capacity: | 2820 KVA |
| Alternator Efficiencies: | 96.30% |
| Air Cooling Flow: | 4 m ³ /s |

GENERATING SET DATA

| | |
|---|------------------|
| Voltage Regulation: | $\geq \pm 5\%$ |
| Voltage Regulation, Stead State: | $\leq \pm 1\%$ |
| Sudden Voltage Warp (100% Sudden Reduce): | $\leq +20\%$ |
| Sudden Voltage Warp (Sudden Increase): | $\leq -15\%$ |
| Voltage Stable Time (100% Sudden Reduce): | $\leq 4\text{S}$ |
| Voltage Stable Time (Sudden Increase): | $\leq 4\text{S}$ |
| Frequency Regulation, Stead State: | 0-5% adjustable |
| Frequency Waving: | $\leq 0.5\%$ |
| Sudden Frequency Warp (100% Sudden Reduce): | $\leq +10\%$ |
| Sudden Frequency Warp (Sudden Increase): | $\leq -7\%$ |
| Frequency Recovery Time (100% Sudden Reduce): | $\leq 3\text{S}$ |
| Frequency Recovery Time (Sudden Increase): | $\leq 3\text{S}$ |
| Noise Level: | 120 dB |
| Emission Level: | TA-Luft |

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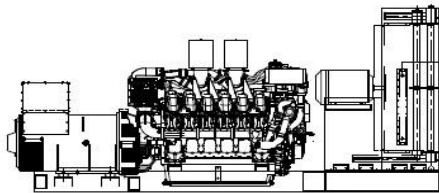
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Options

| Engine | Fuel System | Control System |
|---|---|---|
| <input type="checkbox"/> Oil Drain Valve | <input type="checkbox"/> Daily Fuel Tank <input type="checkbox"/> Base Fuel Tank <input type="checkbox"/> Water Separator <input type="checkbox"/> Fuel Level Sensor | <input type="checkbox"/> Remote Control Panel <input type="checkbox"/> Main line circuit breaker <input type="checkbox"/> Paralleling System <input type="checkbox"/> Electricity Output Cabinet |
| Alternator | Others | Data |
| <input type="checkbox"/> Anti Condensation Heater <input type="checkbox"/> Drop CT (For Paralleling) | <input type="checkbox"/> Rainproof Type <input type="checkbox"/> Soundproof Type <input type="checkbox"/> Container Type | <input type="checkbox"/> Spare Parts |

Dimensions & Weight

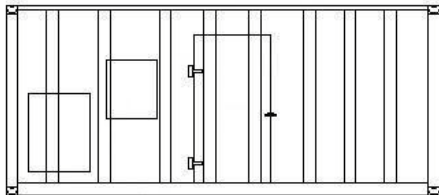


Standard Configuration (Without Radiator)

Overall Size: 6250 (mm) *2320 (mm) *2500 (mm)
 Weight: 22000 kg

Standard Configuration (With Radiator)

Overall Size: 8300 (mm) *2950 (mm) *2550 (mm)
 Weight: 24000 kg



Container Type

Overall Size: 40' HC Container
 12.192 (mm) *2.438 (mm) *2.896 (mm)
 Weight: 31000 kg

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Auto Module Control Panel



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.

MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.

Auto Parallel Control Panel



Automatic Parallel Control Panel, This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.

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