



MINGPOWERS

MD750 Technical Data sheet



Professional Genset Manufacture On Your Side  
Fujian Minghui Mech & Elec Co., Ltd.



## DIESEL GENERATOR

### Powered by DOOSAN DAEWOO Engine

#### STANDARD SPECIFICATION

Three phase four wire, output voltage 400V/230V, 50HZ, between 0.8 lagging, protection capability according with the standard of NAME1 and IP23.

#### General Features:

Composed of **DAEWOO** diesel engine and **Leroy somer** alternator

Oil and fuel filter fitted, water separator

Lube-oil drain valve fitted

Electric Starter Charge motor 24 V.D.C

Water-cooled

Δ Painted steel Base fuel tank

Auto start

Optional soundproof and weatherproof canopy

3 pole MCCB-Delixi (ABB for optional), set mounted starting battery

Operation & Maintenance manual

Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

#### Voltage Regulation

Voltage regulation maintained within  $\pm 0.5\%$

Between 0.8 and 1.0 lagging and unity

From no load to full load

At speed droop variation upto 4.5%

#### Frequency Adjustable Ratio

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

#### Frequency Undulation

load from 0-100%, frequency undulation within 0.25%

No load wire volts max undulation ration\ within 1.8%

Three Phase balanced load in the order of 5

#### Effect factor of Telecom

TIF better than 50

THF to IEC60034 Part 40 better than 2%

#### 50HZ, 1500RPM, 3-PHASE, 400V/230V



Gensets model	Power output(KVA)		Power output (KW)		DAEWOO Engine Model	Leroy somer Alternator
	PRP	ESP	PRP	ESP		
<b>M-D750</b>	<b>688</b>	<b>750</b>	<b>550</b>	<b>600</b>	<b>P222LE-II</b>	<b>LSA49.1M6</b>

Note:

(1) Available in the following voltages: 220V-240V AND 380V-415V(440V)-50HZ

(2) PRP: Prime Power-Continuous duty operation, under variable load 24/24-h-10% overload permissible 1 hour /12hours.

(3) Rating Definitions (Operation at Altitude 1000m, Ambient temperature 40 )Continuous Power. These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power.

## Engine & Alternator

**ENGINE**--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

**ALTERNATOR**--Brushless,self exciting,self regulation,sreen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintained within  $\pm 0.5\%$  from no load to full load.between 0.8 lagging and unity.All standard voltages available.

**COOLING**--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 50 ,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

**ELECTRICAL SYSTEM**--24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

**EXHAUST SYSTEM**--Heavy duty industrial exhaust silencer with flexible piping.

## Technical Data Sheet

**Generating sets model:**

**400V,50Hz,1500 rpm**

Engine Model:	DAEWOO P222LE-II
Type	Vee 12 cylinder
Aspiration	Turbocharged
Bore/Stroke mm	128X142
Compress the ratio	15/1
Cooling system	Water-cooled
100% Load Fuel Consumption	137L/H
Engine Speed/Frequency	1500RPM/50HZ
Rated Output kw/bHP	652/886
Exhaust air flow (m3/min)	38
Coolant Capacity L	23
Starting System	DC Motor
Displacement L	21.927
Lubricant system Capacity L	43
Battery Volatge	24VDC
Governing Type	Electrical(GAC governor)
Exhaust Gas Temperature	606
Exhaust Gas flow m3/min	117.5
Noise level dBA@7m	80dBA(canopy type)

### Genset Option Features

Low fuel level alarm shutdown  
Automatic Fuel Filling System  
Engine oil feeding and drain pump  
Auto Transfer Switch( ATS)  
Parallel control panels  
Circuit Breaker MCCB & ACB  
Remote Control Panel  
weatherproof/soundproof Canopy  
Trailer type Gensets

### QUALITY STANDARDS

ISO9001:2000,ISO3046  
ISO8528 BS4999  
BS5514,AS1359,ICE34  
CE Compliance

### Gensets Dimensions & Weight

Open type:L\*W\*H,mm  
4450X1750X2350  
Enclosure type:L\*W\*H,mm  
HQ container type

## Alternator Technical data

**Leroy somer**

Brushless,self exciting  
class "H" insulation  
Standard degree of protection is IP23  
self regulating  
With fan cooling  
Resist Humid grease  
AC excitation,roating rectification tube  
Stator grease insulation covered  
Rotator and exciation high polymer,Resist  
the corruption of oil and acid  
Rotator ballance is in accordance with  
BS5625 standard 12.5  
 $\Delta$  High-quality lubrication sealed long-time  
bearing  
Rotator silikon steel close tight

	Exciter	Brushless
	Cooling Fan	Cast alloy aluminum
	Bearing	Single,double shielded
	Windings	100% copper
	Connection Type	Reconnectable
	Insulation Type	Class H
	Pitch	2/3
	Amortisseur Winding	Full
	Voltage Regulator	AVR R448
	Voltage Regulator NL-FL	$\pm 0.5\%$
	Underspeed Protection	Standard
	Overexcitation Protection	IP23
	TIF (1960 Weightings)	<50
	Exciation System	AREP

## Control Panel-Datakom

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- a) Instruments: Analogue Voltmeter, Hours Run Meter, Water pressure Meter.
- b) Controls: Emergency Stop Pushbutton, Voltmeter Phase Selector Switch.
- c) Control module: Standard collocation is Turkey datakom 507 Auto start.

### Main Features:

- Δ Automatic mains failure
- Δ Engine control, Generator protection
- Δ Built in alarms and warnings
- Δ Remote Start operation available
- Δ Daily / weekly / monthly exerciser
- Δ Weekly operation schedule programs
- Δ Fuel pump control
- Δ ECU control and monitoring via J1940 CANBUS
- Δ Mains simulation
- Δ Field adjustable parameters
- Δ Free MS-Windows Remote monitoring
- Δ LED displays
- Δ Configurable analogue inputs
- Δ I/O expansion capability



Control module Turkey Datakom 507(With AMF)

## Sound Attenuated Enclosure/Option



### Robust Corrosion Resistant Construction

Black finish stainless steel lock and hinges  
body made from steel components treated with polyester powder coating

### Excellent Access for Maintenance

- two large doors on each side
- radiator fill access plate
- Δ lube oil and cooling water drains pipes to exterior of the enclosure

### Security and Safety

- control panel viewing window in a lockable access door
- Δ emergency stop push button (red) mounted on enclosure interior
- cooling fan and battery charging alternator fully guarded
- exhaust silencing system totally enclosed for operator safety



MINGPOWER reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments. The information contained in this document may therefore be changed without notice. For more technical data

**Manufacturer in China: Fujian Minghui Mech & Elec Co., Ltd.**

Addr: P.O. Box: No. 8 plot Gulou Park Jinshan Industrial Zone  
Fuzhou, China 350008  
TEL: + 86 591 83056673  
Fax: + 86 591 83855582  
[www.mingpowers.com](http://www.mingpowers.com)