



MINGPOWERS

MD500 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 NEMA1 and IP21.

General Features:

- Composed of **DAEWOO** diesel engine and **ENGGA** alternator
- Oil and fuel filter fitted,water separator
- Lube-oil drain valve fitted
- Electric Starter Charge motor 24 VD.C
- Water-cooled
- △ Painted steel Base fuel tank
- Auto start
- Optional soundproof and weatherproof canopy
- 3 pole MCCB-Delixi(ABB for optional),set mounted starting batter
- 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 Phrase 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		
M-D500	450	500	360	400	P158LE-S	LSA47.2S5

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 maintainted 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 P158LE-S
Type	Vee 8 cylinder
Aspiration	Turbocharged
Bore/Stroke mm	128X142
Compress the ratio	15/1
Cooling system	Water-cooled
100% Load Fuel Consumption	88L/H
Engine Speed/Frequency	1500RPM/50HZ
Rated Output kw/bHP	363/494
Exhaust air flow (m ³ /min)	25.3
Coolant Capacity L	20
Starting System	DC Motor
Displacement L	14.618
Lubricant system Capacity L	28
Battery Volatge	24VDC
Governing Type	Electrical(GAC governor)
Exhaust Gas Temperature	606
Exhaust Gas flow m ³ /min	78.3
Noise level dBA@7m	75dBA(canopy type)

Genset Option Features

- Low fuel level alarm shutdown
- Automatic Fuel Filling System
- Engine oil feeding and drain pump
- Auto Transfter 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
3380X1300X1950
Enclosure type:L*W*H,mm
4800X4500X1460

Alternator Technical data

Leroy somer

Brushless,self exciting
class "H" insulation
Standard degree of protection
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
Δ High-quality lubrication sealed long-time bearing
Rotator sillicon 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 R250
Voltage Regulator NL-FL		$\pm 0.5\%$
Underspeed Protection		Standard
Overexcitation Protection		IP23
TIF (1960 Weightings)		<50
Exciation System		SHUNT

