



**MINGPOWERS**

**M-P550-2 Technical Data sheet**



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

## DIESEL GENERATOR

### Powered by Perkins Engin

#### STANDARD SPECIFICATION

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

#### General Features:

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

Oil and fuel filter fitted,water separator

Lube-oil drain valve fitted

Electric Starter Charge motor 24 VD.C

Water-cooled

basekid operation base tank

Auto start

Optional soundproof and weatherproof canopy

3 pole MCCB-Delixi breaker,optional ABB 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 Phrased 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)		Perkins Engine Model	Leroy somer Alternator
	PRP	ESP	PRP	ESP		
<b>M-P550</b>	<b>500</b>	<b>550</b>	<b>400</b>	<b>440</b>	<b>2506C-E15TAG2</b>	<b>LSA47.2M7</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 45 ,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:	Perkins 2506C-E15TAG2
Type	6 cylinder,4 cycle diesel
Aspiration	Turbocharged
Bore/Stroke	mm 137X171
Compress the ratio	16.0:1
Cooling system	Water-cooled
100% Load Fuel Consumption	L/H 105
Engine Speed/Frequency	RPM/Hz 1500/50HZ
Rated Output	kwb/HP 451/605
Exhaust air flow	(m3/min) 722
Coolant Capacity	L 71.6
Starting System	Electric 24 volt DC
Displacement	L 15.8
Lubricant system Capacity	L 68
Battery Volatge	24VDC
Governing Type	Electronic Spray
Exhaust Gas Temperature	514
Exhaust Gas flow	m3/min 81
Noise level	dBA@7m 70dBA(canopy type)

## Genset Optional 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  
 3310×1180×1950  
 Enclosure type:L\*W\*H,mm  
 4570×1420×2160

## Alternator Technical data

**Leroy somer**

Brushless,self excited  
 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  
 High-quality lubrication sealed long-time bearing  
 Rotator silicon 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
A.V.R model	R250
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	SHUNT

## 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 with AMF.

### 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 Block heater control
- Δ Field adjustable parameters
  - Δ Free MS-Windows Remote monitoring
  - Δ LED displays
  - Δ Configurable analogue inputs
  - Δ I/O expansion capability



## 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

lube oil and cooling water drains pipes to exterior of the enclosure

### Security and Safety

control panel viewing window in a lockable access door

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

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