



HIMOINSA®
THE ENERGY

MODEL
HHW-50 M5
INDUSTRIAL RANGE
Open Skid
Powered by HIMOINSA



- K4
- WATER-COOLED
- SINGLE PHASE
- 50 HZ
- NON COMPLYING 97/68/EC
- DIESEL

Generating Rates



| SERVICE | | PRP | STANDBY |
|-----------------------|---------|---------|---------|
| Power | kVA | 48 | 53 |
| Power | kW | 38 | 42 |
| Rated Speed | r.p.m. | 1.500 | |
| Standard Voltage | V | 230/115 | |
| Rated at power factor | Cos Phi | 0,8 | |

01

HIMOINSA Company with quality certification ISO 9001

HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2006/95/EC Low voltage.
- 2004/108/CE Electromagnetic compatibility.
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

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Engine Specifications 1.500 r.p.m.

| ENGINE | | PRP | STANDBY |
|---|------|-----------------------------|---------|
| Rated Output | kW | 46 | 51 |
| Manufacturer | | HIMOINSA | |
| Model | | 4HD38 TC5 | |
| Engine Type | | Diesel 4 strokes-cycle | |
| Injection Type | | Direct | |
| Aspiration Type | | Turbocharged | |
| Cylinders Arrangement | | 4 - L | |
| Bore and Stroke | mm | 102 x 118 | |
| Displacement | L | 3,857 | |
| Cooling System | | Liquid (water + 50% glycol) | |
| Lube Oil Specifications | | API CF4, SAE 15W40 | |
| Compression Ratio | | 17,5:1 | |
| Fuel Consumption StandBy | l/h | 14,5 | |
| Lube Oil Consumption Full Load | | 0,8 % of fuel consumption | |
| Total oil capacity including tubes, filters | L | 8 | |
| Heat rejection to coolant | kW | 24,1 | |
| Governor | Type | Electrical | |
| Air Filter | Type | Dry | |

02

Generator

| Generator | | |
|--------------------------------|-------|--------------------------------|
| Poles | Num | 4 |
| Winding Connections (standard) | | Double delta |
| Frame Mounting | | S-3 11"1/2 |
| Insulation | Class | H class |
| Enclosure (according IEC-34-5) | | IP23 |
| Exciter System | | self-excited, brushless |
| Voltage Regulator | | A.V.R. (Electronic) |
| Bearing | | Single bearing |
| Coupling | | Flexible disc |
| Coating type | | Standard (Vacuum impregnation) |



Application Data

| Exhaust System | | |
|-------------------------------------|--------|------|
| Maximum exhaust temperature | °C | 550 |
| Exhaust Gas Flow | m3/min | 8,4 |
| Maximum allowed back pressure | kPa | 6,5 |
| Heat evacuated through exhaust pipe | kW | 36,4 |

| Air Inlet System | | |
|-------------------------|------|-------|
| Intake Air Flow | m3/h | 192 |
| Cooling Air Flow | m3/s | 1,5 |
| Alternator fan air flow | m3/s | 0,322 |

| Starting System | | |
|------------------------------|-----|------|
| Starting Motor | kW | 4,5 |
| Starting Motor | CV | 6,12 |
| Recommended Battery Capacity | Ah | 150 |
| Auxiliary Voltage | Vcc | 24 |

| Fuel System | | |
|-------------------------|---|--------|
| Fuel Oil Specifications | | Diesel |
| Fuel Tank | L | 145 |



Dimensions



Weight and Dimensions

| | | |
|---|----|-------|
| (L) Length | mm | 2.150 |
| (H) Height | mm | 1.271 |
| (W) Width | mm | 780 |
| Maximum shipping volume (standard supplier) | m3 | 2,13 |
| (*) Wet weight | Kg | 971 |
| Fuel tank capacity | L | 145 |

(*) (with standard accessories)

STANDARD VERSION

Himoinsa has the right to modify any characteristic without prior notice.
Weights and dimensions based on standard products. Illustrations may include optional equipment.
Technical data described here correspond with the available information at the moment of printing.
Industrial design under patent.

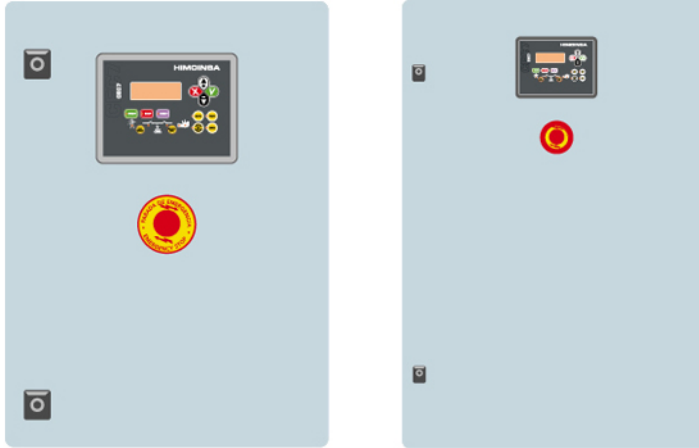
Local Distributor



CONTROL PANEL MODEL

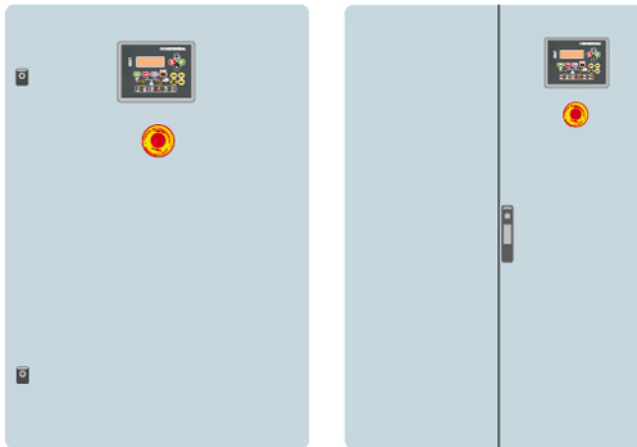
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Himoinsa External ATS WITH visualization display. CEC7



AC5

Automatic Mains Failure control panel. Wall mounted Automatic control panel including transfer switch with thermal magnetic protection (according to voltage and phase). CEA7





Generating Sets Standard and Optional Features

Engine

- Diesel engine
- 4 strokes-cycle
- Water-cooled
- 24V Electrical system
- Radiator with blowing fan
- water separator decanting filter (no visible level)
- Electronic governor
- Sender WT
- Senders OP
- Dry air cleaner
- Hot parts protection
- Moving parts protection
- Optional : · Radiator coolant level sender

Alternator

- Self-excited and Self-regulated
- IP23 protection degree
- Insulation H class

Electrical system

- Electric control panel with measurements devices and control display (according to necessity and configuration)
- 3 poles circuit breaker
- Electrical control panel with earth leakage protection
- Battery charger (standard on automatic control panels)
- Pre-heating resistance (standard on automatic control panels) / water jacket heater
- Battery charger alternator with ground connection
- Starting battery/ies installed and connected to the engine (supports included)
- Ground connection electrical installation with connection ready for ground pike (not supplied)
- Optional : · Battery isolator

Open set version

- Steel made chassis
- Emergency stop button
- Oil sump extraction kit
- Antivibration shock absorber
- Chassis with integrated fuel tank
- Fuel level sensor
- High mechanical strenght
- Epoxy Powder coating
- Drain cap fuel tank
- Steel made residential silencer -15db(A) attenuation
- Optional : · Fuel transfer pump
- Steel made residential silencer -35db(A) attenuation.



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PDF Summary

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Page 1. Genset data

Page 2. Engine Specifications. Generator Specifications.

Page 3. Installation Data

Page 4. Dimensions

Page 5. Control Panel Model

Page 6. Generator Features & Options

Page 7. PDF Summary (ID454E383031363536)

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