



**HIMOINSA®**  
THE ENERGY

MODEL  
**HHW-20 M5**  
INDUSTRIAL RANGE  
Open Skid  
Powered by HIMOINSA



- K2
- WATER-COOLED
- SINGLE PHASE
- 50 HZ
- NON COMPLYING 97/68/EC
- DIESEL

## Generating Rates



SERVICE		PRP	STANDBY
Power	kVA	20	22
Power	kW	16,4	17,8
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	230/115	
Rated at power factor	Cos Phi	0,8	

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### 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	20,3	22,3
Manufacturer		HIMOINSA	
Model		4HD25 NA5	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Natural	
Cylinders Arrangement		4 - L	
Bore and Stroke	mm	90 x 100	
Displacement	L	2,54	
Cooling System		Liquid (water + 50% glycol)	
Lube Oil Specifications		API CF4, SAE 15W40	
Compression Ratio		17,5:1	
Fuel Consumption StandBy	l/h	6,55	
Lube Oil Consumption Full Load		0,8 % of fuel consumption	
Total oil capacity including tubes, filters	L	6	
Heat rejection to coolant	kW	13,7	
Governor	Type	Electrical	
Air Filter	Type	Dry	

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## Generator

Generator		
Poles	Num	4
Winding Connections (standard)		Delta-serie
Frame Mounting		S-4 7,5"
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	m <sup>3</sup> /min	4,6
Maximum allowed back pressure	kPa	6,5
Heat evacuated through exhaust pipe	kW	17,4

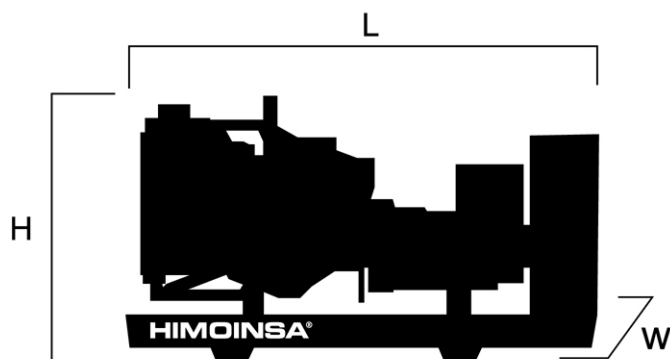
Air Inlet System		
Intake Air Flow	m <sup>3</sup> /h	102
Cooling Air Flow	m <sup>3</sup> /s	1,11
Alternator fan air flow	m <sup>3</sup> /s	0,197

Starting System		
Starting Motor	kW	3,5
Starting Motor	CV	4,76
Recommended Battery Capacity	Ah	120
Auxiliary Voltage	Vcc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	76



## Dimensions



### Weight and Dimensions

(L) Length	mm	1.700
(H) Height	mm	1.255
(W) Width	mm	620
Maximum shipping volume (standard supplier)	m <sup>3</sup>	1,32
(*) Wet weight	Kg	673
Fuel tank capacity	L	76

(\*) (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.

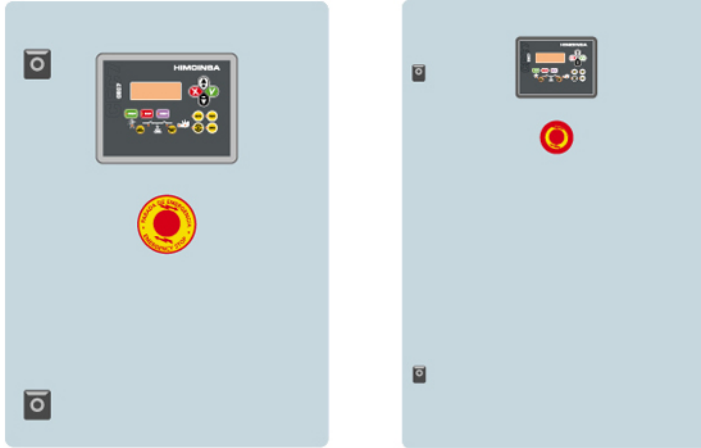
Local Distributor



## CONTROL PANEL MODEL

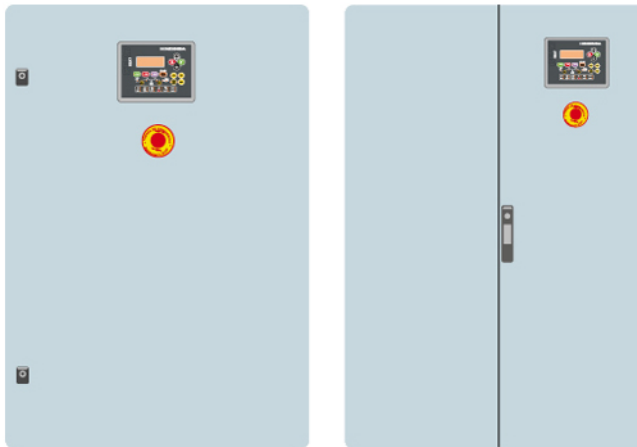
### CC2

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
- 12V 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)
- Electrical control panel with earth leakage protection
- 2 poles circuit breaker
- 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 5. Control Panel Model

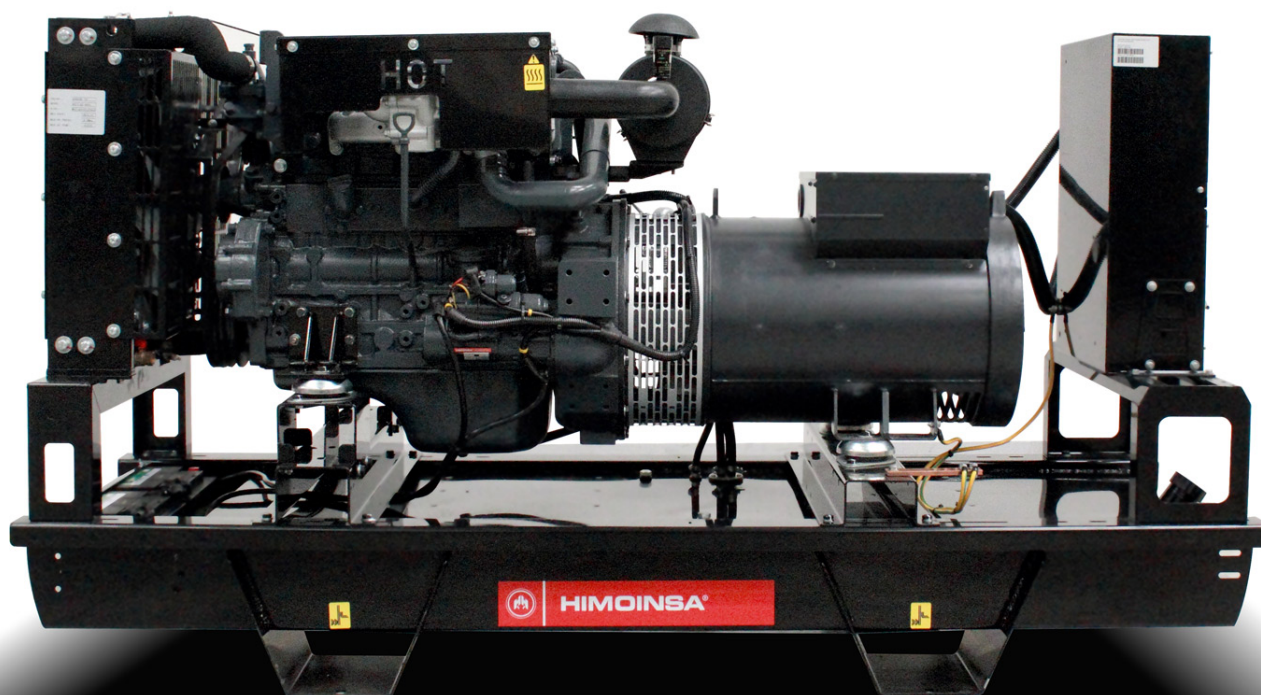
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