



MODEL
HSY-20 M5
HS | STATIONARY RANGE
Open Skid
Powered by YANMAR

-  K1
-  WATER-COOLED
-  SINGLE PHASE
-  50 HZ
-  DIESEL

Generating Rates



SERVICE		PRP	ESP
Power	kVA	16,4	18,2
Power	kW	13,1	14,6
Rated Speed	r.p.m.	1.500	
Main voltage	V	230 V (m)	
Available Voltages	V	240/120	
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.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 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 8528-1:2020 normative: 1000 mbar, 25°C, 30% relative humidity.

Limited-time running power (LTP):

According to ISO 8528-1:2020, 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 8528-1:2020, 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

"Class G2" performance according to the load impact test according to ISO 8528-5:2020

HIMOINSA HEADQUARTERS:

Fábrica: Ctra. Murcia - San Javier, Km. 23,6 | 30730 SAN JAVIER (Murcia) Spain
Tel.+34 968 19 11 28 Fax +34 968 19 12 17 Fax +34 968 19 04 20 | info@himoinsa.com | www.himoinsa.com

Manufacture facilities:

SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

Subsidiaries:

PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA | DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA



HIMOINSA CHINA CO. LTD - TLF. +86 519 8622 66 88 | FAX: +86 519 86 22 66 87 | E-mail: china@asia.himoinsa.com
N° 10 FENGMIN ROAD, SOUTH PART OF WUJIN, HI-TECH INDUSTRIAL DEVELOPMENT ZONE
CHANGZHOU 213164 JIANGSU PROVINCE P.R. CHINA

Engine Specifications 1.500 r.p.m.

ENGINE		PRP	ESP
Rated Engine Output	kW	16,4	18,9
Manufacturer		YANMAR	
Model		4TNV88HSPU	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Natural	
Number of cylinders and arrangement		4-L	
Bore and Stroke	mm	88 x 90	
Displacement	L	2,19	
Cooling System		Coolant	
Lube Oil Specifications		SAE 3 class 10W30 / API grade CD,CF	
Compression Ratio		19,1	
Lube oil consumption with full load	g/kWh	0,27	
Total oil capacity	L	7,4	
Total coolant capacity	L	5,5	
Governor	Type	Mechanical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	51,6	

Generator

Generator		
Manufacturer		HIMOINSA
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		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)
Bracket type		Single bearing
Coupling system		Flexible disc
Coating type		Standard (Vacuum impregnation)

Application Data

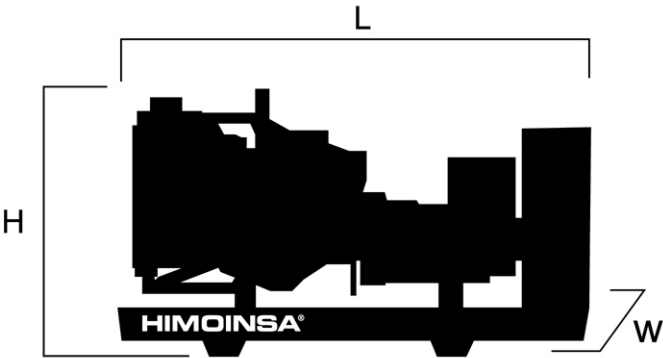
Exhaust System		
Maximum exhaust temperature	°C	500
Exhaust Gas Flow	m ³ /min	4,72
Maximum allowed back pressure	mm H ₂ O	1300

Necessary Amount Of Air		
Intake air flow	m ³ /h	88,7
Cooling Air Flow	m ³ /s	0,8
Alternator fan air flow	m ³ /s	0,1

Starting System		
Starting power	kW	1,4
Starting power	CV	1,9
Recommended battery	Ah	60
Auxiliary Voltage	Vdc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	60
Fuel Consumption ESP	l/h	4,79
Fuel Consumption 70 % ESP	l/h	3,3

Dimensions



Weight and Dimensions

(L) Length	mm	1.450
(W) Width	mm	620
(*) Weight with liquids in radiator and sump	kg	Ask
Fuel tank capacity	L	60
Autonomy (70% ESP)	Hours	18
Autonomy (100% ESP)	Hours	13

(*) (with standard accessories)

STANDARD VERSION

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

Local Distributor

CONTROL PANEL MODEL

M5

Control panel with CEM8 Auto-Start controller, thermal-magnetic and earth leakage relay (according to voltage and frequency). Digital control unit CEM 8



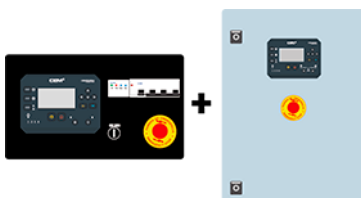
AS5

Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM8 unit. (*) AS5 as optional with CEA8 unit. Automatic panel without transfer switch and WITH mains control. Digital control unit CEM8 CEA8



AS5 + CC2

Automatic panel WITH transfer switch and with mains control. The display will be on the genset and on the cabinet. Digital control unit CEM8+CEC8

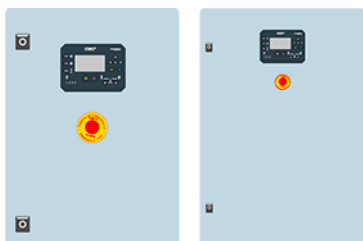


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CONTROL PANEL MODEL

CC2

Himoinsa Switching cabinet WITH display. Digital control unit CEC8



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Controller features (I)

- : Standard
- x : Not included
- : Optional

Generator Readings	CEM 8
Voltage between phases	•
Voltage between neutral and phase	•
Current intensities	•
Frequency	•
Apparent power (Kva)	•
Active power (Kw)	•
Reactive power (kVAr)	•
Power factor	•
Mains Readings	CEM 8
Voltage between phases	x
Voltage between phases and neutral	x
Current intensities	x
Frequency	x
Apparent power	x
Active power	x
Reactive power	x
Power factor	x
Engine Readings	CEM 8
Coolant temperature	•
Oil pressure	•
Fuel level (%)	•
Battery voltage	•
R.P.M.	•
Battery charge alternator voltage	•
Engine Protections	CEM 8
High water temperature	•
High water temperature by sensor	•
Low water temperature by sensor	•
Low oil pressure	•
Low oil pressure by sensor	•
Low water level	•
Unexpected shutdown	•

Controller features (II)

- : Standard
- x : Not included
- : Optional

Engine Protections	CEM 8
Fuel storage	•
Fuel storage by sensor	•
Stop failure	•
Battery voltage failure	•
Battery charge alternator failure	•
Overspeed	•
Underspeed	•
Start failure	•
Emergency stop	•
Alternator Protections	CEM 8
High frequency	•
Low frequency	•
High voltage	•
Low voltage	•
Short-circuit	•
Asymmetry between phases	•
Incorrect phase sequence	•
Inverse power	•
Overload	•
Genset signal drop	•
Counters	CEM 8
Total hour counter	•
Partial hour counter	•
Kilowatt meter	•
Starts valid counters	
Starts failure counters	•
Maintenance	•
Communications	CEM 8
RS232	x
RS485	•
Modbus IP	•
Modbus	•

Controller features (III)

- : Standard
- x : Not included
- : Optional

Communications	CEM 8
CCLAN	•
Software for PC	•
Analogue modem	•
GSM/GPRS modem	x
Remote screen	•
Tele signal	•
J1939	•
Features	CEM 8
Alarm history	•
External start	•
Start inhibition	•
Mains failure start	x
Start under normative EJP	•
Pre-heating engine control	•
Genset contactor activation	•
Mains & Genset contactor activation	x
Fuel transfer control	•
Engine temperature control	•
Manual override	•
Programmable alarms	•
Genset start function in test mode	•
Programmable outputs	•
Multilingual	•
Special Functions	CEM 8
GPS Positioning	x
Synchronisation	x
Mains synchronization	x
Second Zero elimination	x
RAM7	•
Remote screen	•

Generator set features

Engine

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection

Alternator

- Self-excited and self-regulated
- IP23 protection
- H class insulation

Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- Adjustable earth leakage protection
- Battery charger (standard on gensets with automatic control panels)
- Heating resistor (standard on sets with automatic control panels)
- Battery charger alternator with ground connection
- Starter battery/ies installed (cables and bracket included)
- Ground connection electrical installation with connection ready for ground spike (not supplied)
- Optional :
 - Battery Switch
 - Leakage detector
 - Optional Battery (Optima)

Open set version

- Steel chassis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Steel industrial silencer -15db(A) attenuation
- Optional :
 - Manual oil drain pump
 - Fuel transfer pump
 - Steel residential silencer -35db(A) attenuation.

PDF Summary

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