HIMOINSA
A YANMAR COMPANY

HSF-105 M5

HS | STATIONARY RANGE
Powered by FPT_IVECO

SERVICE		PRP	ESP
POWER	kVA	96	104
POWER	kW	77	83
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	230 V (m)	
RATED AT POWER FACTOR	Cos Phi	0,8	

HS | STATIONARY RANGE

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)
- 97/68/EC Emissions of gaseous and particulate pollutants.
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2020 normative: 1000 mbar, 25ºC, 30% relative humidity.

Prime Power (PRP):
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

Continuous Power (COP): According to Standard ISO 8528-1:2020, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

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

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Manufacture facilities:
SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

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

STANDARD SOUNDPROOFING

- HS52 — HS50
- WATER-COOLED
- M — SINGLE PHASE
- 50 Hz — 50 HZ
- STAGE 2
- DIESEL

Engine Specifications | 1.500 r.p.m.

Rated Engine Output (PRP)	kW	88,6
Rated Engine Output (ESP)	kW	95,9
Manufacturer		FPT_IVECO
Model		NEF45TM2A
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		4-L
Bore and Stroke	mm	104 x 132
Displacement	L	4,5
Cooling System		Liquid (water + 50% glycol)
Lube Oil Specifications		ACEA E3 - E5
Compression Ratio		17,5 : 1

Lube oil consumption with full load		0,5 % of fuel consumption
Total oil capacity including tubes, filters	L	12,8
Total coolant capacity	L	18,5
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	70,3

- 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

Generator Specifications | MECC ALTE

Manufacturer		MECC ALTE
Model		ECO38 3S/4 A
Poles	No.	4
Connection type (standard)		Double delta
Mounting type		S-3 11"1/2
Insulation		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)

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

ISO 9001
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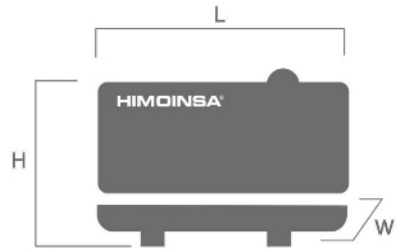
WEIGHT AND DIMENSIONS

		Standard Version	Optional version	Optional version
Length (L)	mm	2900	2900	2900
Height (H)	mm	1780	1855	2030
Width (W)	mm	1100	1100	1100
Maximum shipping volume	m³	5,68	5,92	6,48
Weight with liquids in radiator and sump	Kg	1724	Ask	Ask
Fuel tank capacity	L	310	485	890
Autonomy (70% PRP)	Hours	21	34	62
Autonomy (100% PRP)	Hours	14	22	40
		Steel tank	Steel tank	Steel tank



SOUND PRESSURE

Sound pressure level	dB(A)@7m	69 ± 2,4

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	535
Exhaust Gas Flow	kg/s	0,148
Maximum allowed back pressure	kPa	5
Exhaust Flange Size (external diameter)	mm	90
Heat dissipated by exhaust pipe	KCal/Kwh	731,6

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	427
Cooling Air Flow	m³/s	2,2
Alternator fan air flow	m³/s	0,533

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	24,4
Fuel Consumption 100% PRP	l/h	22
Fuel Consumption 70 % PRP	l/h	14,47
Fuel Consumption 50 % PRP	l/h	11

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	310
Other fuel tank capacities	L	485, 890

STARTING SYSTEM

Starting power	kW	3
Starting power	CV	4,08
Recommended battery	Ah	100
Auxiliary Voltage	Vdc	12

Soundproofed version

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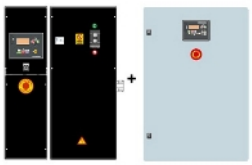
- Steel chassis
- Lower power cable outlet with aluminum cover
- Side auxiliary cable outlet with aluminum cover
- Modular tank and retention tray system. Allows easy removal and / or maintenance of the equipment
- Wide access to the engine compartment because of a removable door
- Fuel tank in retention tray
- Soundproofing with foam and polyurethane film
- 4 side lifting points
- Anti-vibration shock absorbers
- Fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Fuel transfer pump
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- Manual oil extraction pump (Optional).
- Noise reduction kit (Optional).

Control Panels

AS7

Automatic control panel WITHOUT Transfer Switch and WITHOUT mains control with M7X unit.

Digital control unit M7X



AS7 + CC2

Automatic control panel WITH transfer switch and WITH mains control. The display will be on the genset and on the cabinet.

Digital control unit M7X+CEC7

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.

*Non-contractual image. The product may vary depending on the configuration.

CEM8 Controller

Advanced control unit for generator sets that combines an intuitive user experience with advanced generator management, incorporating connectivity and intelligent functions that optimise operation and maintenance:

- Intuitive interface and optimised navigation, with configurable dashboard.
- Connectivity and IoT for remote monitoring and intelligent management (depending on version).
- Maximum flexibility: compact or distributed mounting and configurable I/O. Compatible with Stage V and Tier 4 Final engines.
- Safety and reliability: safe engine shutdown and protection against overload and overtemperature.
- Industrial integration: buses (CAN, Ethernet, USB, RS485) and protocols (J1939, Modbus, SNMP).

Data Sheet CEM8

Data Sheet CEA8

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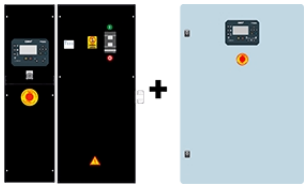

AS5 + CC2

Automatic panel WITH transfer switch and with mains control. The display will be on the genset and on the cabinet.

*Non-contractual image. The product may vary depending on the configuration.

CEM8 Controller

Advanced control unit for generator sets that combines an intuitive user experience with advanced generator management, incorporating connectivity and intelligent functions that optimise operation and maintenance:

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•Maximum flexibility: compact or distributed mounting and configurable I/O. Compatible with Stage V and Tier 4 Final engines.

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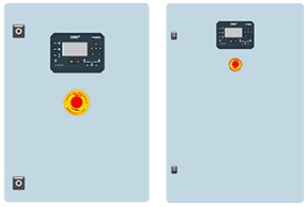
Data Sheet CEM8

Data Sheet CEC8



CC2

Himoinsa Switching cabinet WITH display.

*Non-contractual image. The product may vary depending on the configuration.

Data Sheet CEC8

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)
- Battery Switch (Optional).
- Leakage detector (Optional).
- Optional Battery (Optima) (Optional).