HIMOINSA
A YANMAR COMPANY

HSF-330 T5

HS | STATIONARY RANGE
Powered by FPT_IVECO

SERVICE		PRP	ESP
POWER	kVA	300	330
POWER	kW	240	264
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/115 · 230 V (t) · 415/240	
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

- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 3A
- DIESEL

Himoinsa 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.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.

Engine Specifications | 1.500 r.p.m.

Rated Engine Output (COP)	kW	206,3
Rated Engine Output (PRP)	kW	259,3
Rated Engine Output (ESP)	kW	286,3
Manufacturer		FPT_IVECO
Model		C87TE1PV
Engine Type		4-stroke diesel
Injection Type		Direct, common rail
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		6-L
Bore and Stroke	mm	117 x 135
Displacement	L	8,7
Cooling System		Liquid (water + 50% glycol)
Lube Oil Specifications		SAE 15 W40
Compression Ratio		15,9:1

Lube oil consumption with full load		0,3 % of fuel consumption
Total oil capacity including tubes, filters	L	28
Governor	Type	Electrical
Air Filter	Type	Dry

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Dry air filter
- Radiator with pusher fan
- Electronic governor
- Hot parts protection
- Moving parts protection
- Water separator filter with sensor (Optional).
- Water separator filter (no visible level) (Optional).

Generator Specifications | MECC ALTE

Manufacturer		MECC ALTE
Model		ECO38.1L4C
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-1 14"
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)

- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

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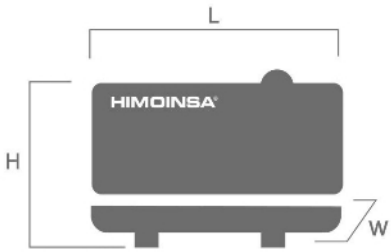
WEIGHT AND DIMENSIONS

		Standard Version	Optional version
Length (L)	mm	4200	4200
Height (H)	mm	2210	2210
Width (W)	mm	1360	1360
Maximum shipping volume	m³	12,62	12,62
Weight with liquids in radiator and sump	Kg	3230	3100
Fuel tank capacity	L	400	-
Autonomy (70% PRP)	Hours	8	-
Autonomy (100% PRP)	Hours	6	-
		Plastic tank	No deposit



SOUND PRESSURE

Sound pressure level	dB(A)@7m	68 ± 2,4

APPLICATION DATA

EXHAUST SYSTEM

Exhaust Gas Flow	kg/s	0,357
Maximum allowed back pressure	kPa	10
Exhaust Flange Size (external diameter)	mm	160

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	1276,1
Cooling Air Flow	m³/s	5,78
Alternator fan air flow	m³/s	0,533

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	72,8
Fuel Consumption 100% PRP	l/h	68,6
Fuel Consumption 70 % PRP	l/h	50,97
Fuel Consumption 50 % PRP	l/h	34,5

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	400
Other fuel tank capacities	L	0

STARTING SYSTEM

Auxiliary Voltage	Vdc	24

Soundproofed version

- Steel chassis
- Galvanized slide carriage and brackets for transportation with forklift
- Lower power cable outlet with aluminum cover
- Side auxiliary cable outlet with aluminum cover
- 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
- Low noise emissions level
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Oil sump extraction kit
- Emergency stop button (double emergency stop protection: Interior on the panel + Exterior on the bodywork)
- Door with window to visualize control panel, alarms and measurements
- Pressure locks
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Manual oil extraction pump (Optional).
- Fuel transfer pump (Optional).

ISO 9001
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FEATURES OF THE CONTROL UNITS

		M7X	CEM 7	CEA 7	CEC 7	M7X+CEC7
Generator Readings	Voltage between phases	•	•	•	•	•
	Voltage between neutral and phase	•	•	•	•	•
	Current intensities	•	•	•	•	•
	Frequency	•	•	•	•	•
	Apparent power (Kva)	•	•	•	•	•
	Active power (Kw)	•	•	•	•	•
	Reactive power (kVAr)	•	•	•	•	•
	Power factor	•	•	•	•	•
Mains Readings	Voltage between phases			•	•	•
	Voltage between phases and neutral			•	•	•
	Current intensities			•	•	•
	Frequency			•	•	•
	Apparent power			•		
	Active power			•		
	Reactive power			•		
	Power factor			•		
Engine Readings	Coolant temperature	•	•	•		•
	Oil pressure	•	•	•		•
	Fuel level (%)	•	•	•		•
	Battery voltage	•	•	•		•
	R.P.M.	•	•	•		•
	Battery charge alternator voltage	•	•	•		•
Engine Protections	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	•	•	•		•
	Fuel storage	•	•	•		•
	Fuel storage by sensor	•	•	•		•
	Stop failure	•	•	•		•
	Battery voltage failure	•	•	•		•
	Battery charge alternator failure	•	•	•		•
	Overspeed	•	•	•		•
	Underspeed	•	•	•		•
	Start failure	•	•	•		•
	Emergency stop	•	•	•	•	•

• Standard ⓞ Optional

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		M7X	CEM 7	CEA 7	CEC 7	M7X+CEC7
Alternator Protections	High frequency	•	•	•	•	•
	Low frequency	•	•	•	•	•
	High voltage	•	•	•	•	•
	Low voltage	•	•	•	•	•
	Short-circuit	•	•	•		•
	Asymmetry between phases	•	•	•	•	•
	Incorrect phase sequence	•	•	•	•	•
	Inverse power	•	•	•		•
	Overload	•	•	•		•
	Genset signal drop	•	•	•	•	•
Counters	Total hour counter	•	•	•	•	•
	Partial hour counter	•	•	•	•	•
	Kilowatt meter	•	•	•	•	•
	Starts valid counters	•	•	•	•	•
	Starts failure counters	•	•	•	•	•
	Maintenance	•	•	•	•	•
Communications	RS232		ⓞ	ⓞ	ⓞ	ⓞ
	RS485		ⓞ	ⓞ	ⓞ	ⓞ
	Modbus IP		ⓞ	ⓞ	ⓞ	ⓞ
	Modbus		ⓞ	ⓞ	ⓞ	ⓞ
	CCLAN		ⓞ	ⓞ		
	Software for PC		ⓞ	ⓞ	ⓞ	ⓞ
	Analogue modem		ⓞ	ⓞ	ⓞ	ⓞ
	GSM/GPRS modem		ⓞ	ⓞ	ⓞ	ⓞ
	Remote screen		ⓞ	ⓞ		
	Tele signal		ⓞ (8 + 4)	ⓞ (8 + 4)		
	J1939	ⓞ M7XJ	ⓞ	ⓞ		ⓞ M7XJ
Features	Alarm history	• (100)	• (100)	• (100)	• (100)	• (100)
	External start	•	•	•	•	•
	Start inhibition	•	•	•	•	•
	Mains failure start			•	•	•
	Start under normative EJP	•	•	•		•
	Pre-heating engine control	•	•	•		•
	Genset contactor activation	•	•	•	•	•
	Mains & Genset contactor activation			•	•	•
	Fuel transfer control	•	•	•		•
	Engine temperature control	•	•	•		•
	Manual override	•	•	•		•
	Programmable alarms	•	•	•		•
	Genset start function in test mode	•	•	•	•	•
	Programmable outputs	•	•	•		•
	Multilingual		•	•	•	•
Special Functions	GPS Positioning		ⓞ	ⓞ		
	Synchronisation					
	Mains synchronization					
	Second Zero elimination					
	RAM7		ⓞ	ⓞ		
	Remote screen		ⓞ	ⓞ		

• Standard ⓞ Optional

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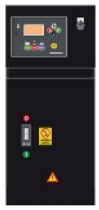
CONTROL PANELS

AS5

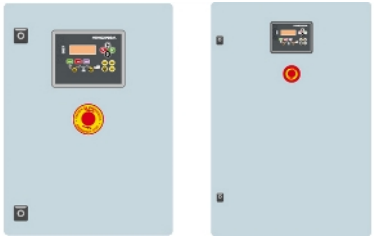
Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



AS7

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

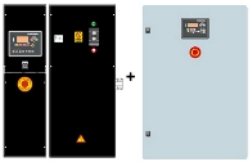
Digital control unit M7X



CC2

Himoinsa Switching cabinet WITH display.

Digital control unit CEC7



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 CEM7+CEC7

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

AC5

Automatic mains failure control panel. Wall-mounted cabinet WITH transfer switch and thermal magnetic protection (depending on current and voltage).

Digital control unit CEA7

Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- Battery Switch
- Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic 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 (Optima) (Optional).

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