



SERVICE		PRP	ESP *
POWER	kVA	270	301
POWER	kW	216	241
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	200/115 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	

* ESP power only available on special engine configurations. Consult Gas Commercial Engineering



INDUSTRIAL 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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2020 normative: 1000 mbar, 25°C, 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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OPEN SKID

-  OPEN SKID
-  WATER-COOLED
-  THREE PHASE
-  50 HZ
-  LPG

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.



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Engine Specifications | 1.500 r.p.m.

Rated Engine Output (PRP)	kW	230,1
Rated Engine Output (ESP) *	kW	258,1
Manufacturer		PSI
Model		21.9L
Engine Type		4-stroke Otto Cycle
Injection Type		Carburization
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		12-V
Bore and Stroke	mm	128 x 142
Displacement	L	21,9
Cooling System		Coolant
Lube Oil Specifications		API CD \geq CF, SAE 15W40
Compression Ratio		10,5:1

Total oil capacity including tubes, filters	L	47,1
Total coolant capacity	L	228
Heat dissipated by coolant	kW	377
Governor	Type	Electrical
Air Filter	Type	Dry

- LPG-liquefied petrol gas engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



Generator Specifications | MECC ALTE

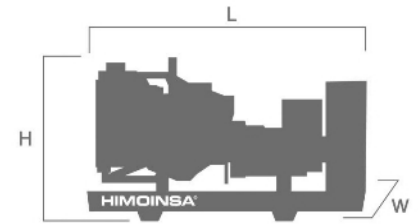
Manufacturer		MECC ALTE
Model		ECO38 2L/4 A
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-1 14"
Insulation		H class

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
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	4200
Height (H)	mm	2274
Width (W)	mm	1915
Maximum shipping volume	m ³	18,29
Weight with liquids in radiator and sump	Kg	5438
Autonomy (70% PRP)	Hours	Ask
Autonomy (100% PRP)	Hours	Ask



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	750
Exhaust Gas Flow	m ³ /min	68,7
Maximum allowed back pressure	kPa	10,2

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	1320
Alternator fan air flow	m ³ /s	0,533

FUEL CONSUMPTION

Fuel Consumption ESP	kg/h	62,3
Fuel Consumption 100% PRP	kg/h	56,3
Fuel Consumption 70 % PRP	kg/h	42,34
Fuel Consumption 50 % PRP	kg/h	33,3

FUEL SYSTEM

Fuel Oil Specifications	LPG	
Lower heating value (LHV)	kWh/kg	12,88
Composition *	95% Propane	
Fuel supply connection size	Inches	2
Fuel supply pressure	mbar	70 - 300
Fuel Tank	L	0

STARTING SYSTEM

Starting power	kW	7
Starting power	CV	9,52
Recommended battery	Ah	200
Auxiliary Voltage	Vdc	24



Open set version

- Steel chassis
- Emergency stop button
- Oil sump extraction kit
- Anti-vibration shock absorbers
- Steel industrial silencer -15db(A) attenuation
- Steel residential silencer -35db(A) attenuation. (Optional).



Gas ramp

- Manual shut-off valve
- Gas filter
- Double solenoid valve
- Primary pressure regulator
- Secondary pressure regulator (Zero pressure regulator)
- Low pressure switch
- Valve (tightness) testing system
- Inlet pressure manometer
- Outlet pressure manometer
- Special Start/Stop sequence
- High pressure regulator (Optional).
- High pressure switch (Optional).



Control Panels

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 CEAB unit. Automatic panel without transfer switch and WITH mains control.
Digital control unit CEM8 CEAB

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

CC2

Himoinsa Switching cabinet WITH display.
Digital control unit CEC8



Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- 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)
- Battery Switch (Optional).