



SERVICE		PRP	ESP
POWER	kVA	500	540
POWER	kW	400	432
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	



## 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.

G3 class load acceptance in accordance with ISO 8528-5:2020

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## OPEN SKID



K8



WATER-COOLED



THREE PHASE



50 HZ



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 (PRP)	kW	423,9
Rated Engine Output (ESP)	kW	457,9
Manufacturer	FPT_IVECO	
Model	C13TE7	
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	135 x 150
Displacement	L	12,88
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	ACEA E3 - E5	
Compression Ratio	16,5:1	

Lube oil consumption with full load	0,5 % of fuel consumption	
Total oil capacity including tubes, filters	L	32
Total coolant capacity	L	38,1
Heat dissipated by coolant	kW	199,5
Governor	Type	Electrical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	108

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



## Generator Specifications | MECC ALTE

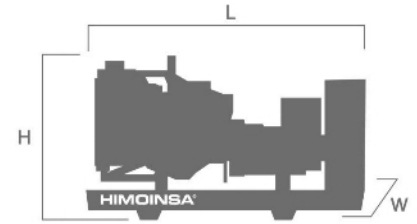
Manufacturer	MECC ALTE	
Model	ECO40.3S4C	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-1 14"	
Insulation	H class	

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	3310
Height (H)	mm	1783
Width (W)	mm	1390
Maximum shipping volume	m <sup>3</sup>	8,2
Weight with liquids in radiator and sump	Kg	3305
Fuel tank capacity	L	597
Autonomy (70% PRP)	Hours	8
Autonomy (100% PRP)	Hours	6



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	520
Maximum allowed back pressure	mbar	50
Heat dissipated by exhaust pipe	KCal/Kwh	581

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1576
Cooling Air Flow	m <sup>3</sup> /s	10,9

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	112,6
Fuel Consumption 100% PRP	l/h	100,6
Fuel Consumption 70 % PRP	l/h	70,63
Fuel Consumption 50 % PRP	l/h	51,5

### FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	597

### STARTING SYSTEM

Starting power	kW	7,8
Starting power	CV	10,61
Recommended battery	Ah	50 x 2
Auxiliary Voltage	Vdc	24



## Open set version

- Steel chassis
- Emergency stop button
- Oil sump extraction kit
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- High mechanical strength
- Epoxy polyester powder coating
- Fuel tank drain plug
- Steel industrial silencer -15db(A) attenuation
- Fuel transfer pump (Optional).
- Steel residential silencer -35db(A) attenuation. (Optional).



## Control Panels



### M5

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

\*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





## 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.

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

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## Data Sheet CEM8



## Data Sheet CEAB



## AS5 + CC2

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

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- 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 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)
- 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)