



SERVICE		PRP / DCP	ESP
POWER	kVA	450	491
POWER	kW	360	393
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.

Data Center Power (DCP): Complies with Uptime Institute. The manufacturer declares an acceptable average load factor 100%. It is required a mean time between a revision of 12000h and an oil change of 300h. The genset must not be used as a main power source. If the model is for DCP application, you have to inform to factory. "Class G2" performance according to the load impact test according to ISO 8528-5:2020

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## OPEN SKID



K9



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) / DCP	kW	393	Lube oil consumption with full load	g/kWh	0,3
Rated Engine Output (ESP)	kW	428	Total oil capacity	L	38
Manufacturer	SCANIA				
Model	DC13-72A(02-13)				
Engine Type	4-stroke diesel				
Injection Type	Direct				
Aspiration Type	Turbocharged and after-cooled				
Number of cylinders and arrangement	6-L				
Bore and Stroke	mm	130 x 160	Total coolant capacity	L	38
Displacement	L	12,7	Governor	Type	Electrical
Cooling System	Coolant				
Lube Oil Specifications	ACEA E3,E4,E5 or E7				
Compression Ratio	16,3:1				
			Air Filter	Type	Dry
			Inner diameter exhaust pipe	mm	90

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (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



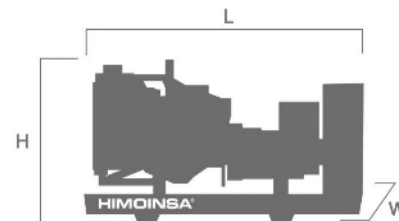
## Generator Specifications | MECC ALTE

Manufacturer	MECC ALTE		Enclosure (according IEC-34-5)	IP23
Model	ECO40.2S4C		Exciter system	Self-excited, brushless
Poles	No.	4	Voltage regulator	A.V.R. (Electronic)
Connection type (standard)	Star-series		Bracket type	Single bearing
Mounting type	S-1 14"		Coupling system	Flexible disc
Insulation	H class		Coating type	Standard (Vacuum impregnation)

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

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	3600
Height (H)	mm	2090
Width (W)	mm	1460
Maximum shipping volume	m <sup>3</sup>	10,99
Weight with liquids in radiator and sump	Kg	2917
Fuel tank capacity	L	740
Autonomy (70% PRP)	Hours	12
Autonomy (100% PRP)	Hours	8



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	536
Exhaust Gas Flow	kg/s	0,567
Maximum allowed back pressure	mbar	100
Heat dissipated by exhaust pipe	KCal/Kwh	607,14

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1600
Cooling Air Flow	m <sup>3</sup> /s	9,58
Alternator fan air flow	m <sup>3</sup> /s	0,9

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	97,79
Fuel Consumption 100% PRP	l/h	87,16
Fuel Consumption 70 % PRP	l/h	60,13
Fuel Consumption 50 % PRP	l/h	43,35

### FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	740

### STARTING SYSTEM

Starting power	kW	5,5
Starting power	CV	7,48
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
- 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.

## 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.
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- 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 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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## 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:

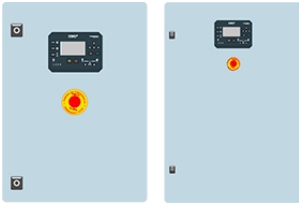
- Intuitive interface and optimised navigation, with configurable dashboard.
- Connectivity and IoT for remote monitoring and intelligent management (depending on version).
- Maximum flexibility: compact or distributed mounting and configurable I/O. Compatible with Stage V and Tier 4 Final engines.
- 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 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)