



## 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)
- (UE) N° 2016/1628 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, 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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Manufacture facilities:

SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

Subsidiaries:

PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA |  
DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA | MOROCCO

SERVICE		PRP	ESP
POWER	kVA	22	25
POWER	kW	17,7	19,6
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	



## OPEN SKID



K3



WATER-COOLED



THREE PHASE



50 HZ



STAGE V



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	20,2
Rated Engine Output (ESP)	kW	22,5
Manufacturer	YANMAR	
Model	4TNV86CTIHR	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Natural	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	86 x 90
Displacement	L	2,091
Cooling System	Coolant	
Lube Oil Specifications	API CJ-4, ACEA E6, JASO DH-2	
Compression Ratio	19,2	

Total oil capacity	L	7,4
Total coolant capacity	L	5,8
Governor	Type	Electrical
Air Filter	Type	Dry



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (visible level)
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | MECC ALTE

Manufacturer	MECC ALTE	
Model	ECP28.L4C	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-4 7,5"	
Insulation	H class	

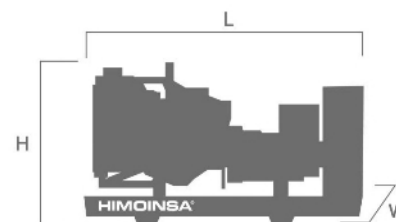
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



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

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	1850
Height (H)	mm	Ask
Width (W)	mm	780
Weight with liquids in radiator and sump		Ask
Fuel tank capacity	L	120
Autonomy (70% PRP)	Hours	32
Autonomy (100% PRP)	Hours	23



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	450
Exhaust Gas Flow	m³/min	5,36
Maximum allowed back pressure	mm H2o	1300

### NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	122,32
Cooling Air Flow	m³/s	0,987
Alternator fan air flow	m³/s	0,11

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	6,03
Fuel Consumption 100% PRP	l/h	5,29
Fuel Consumption 70 % PRP	l/h	3,76
Fuel Consumption 50 % PRP	l/h	2,84

### FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	120

### STARTING SYSTEM

Starting power	kW	1,7
Starting power	CV	2,31
Recommended battery	Ah	60
Auxiliary Voltage	Vdc	12



## Open set version

- Steel chassis
- Emergency stop button
- 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

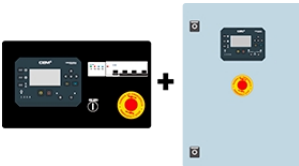
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## Data Sheet CEM8



## 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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## 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

- M5 control panel with electronic CEM7 control unit and switched emergency stop
- Power panel with built-in circuit breaker plates
- Safety relay in output terminal board (thermal magnetic trip and alarm in control unit)
- Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic protection
- 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).