



SERVICE		PRP	ESP
POWER	kVA	20	22
POWER	kW	16	17,6
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	



## 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)
- 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, 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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## STANDARD SOUNDPROOFING



B24



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 (PRP)	kW	19,1
Rated Engine Output (ESP)	kW	21
Manufacturer	YANMAR	
Model	4TNV84TBGGEH	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Turbocharged	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	84 x 90
Displacement	L	1,995
Cooling System	Coolant	
Lube Oil Specifications	SAE 3 class 10W30 / API grade CD,CF	
Compression Ratio	18,9	

Lube oil consumption with full load	g/kWh	0,27
Total oil capacity	L	7,4
Total coolant capacity	L	5,8
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	34,7

- 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.M4C	
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
- IP23 protection
- H class insulation

## WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version	High Capacity version	High Capacity version	High Capacity version	High Capacity version
Length (L)	mm	2100	2100	2100	2100	2100	2100
Height (H)	mm	1350	1410	1565	1760	1910	2040
Width (W)	mm	980	980	980	980	980	980
Maximum shipping volume	m <sup>3</sup>	2,78	2,9	3,22	3,62	3,93	4,2
Weight with liquids in radiator and sump	Kg	772	887	910	Ask	Ask	1176
Fuel tank capacity	L	100	190	330	600	750	1000
Autonomy (70% PRP)	Hours	28	54	93	169	212	282
Autonomy (100% PRP)	Hours	20	38	67	121	152	202
		Plastic tank	Steel tank	Steel tank	Steel tank	Steel tank	Steel tank

## SOUND PRESSURE

Sound pressure level	dB(A)@7m	60 ± 2,4
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## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	450
Exhaust Gas Flow	m <sup>3</sup> /min	5,24
Maximum allowed back pressure	mm H2o	1000
Exhaust Flange Size (external diameter)	mm	65

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	116,71
Cooling Air Flow	m <sup>3</sup> /s	0,8
Alternator fan air flow	m <sup>3</sup> /s	0,11

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	5,47
Fuel Consumption 100% PRP	l/h	4,95
Fuel Consumption 70 % PRP	l/h	3,54
Fuel Consumption 50 % PRP	l/h	2,72

### FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	100
Other fuel tank capacities	L	190, 330, 600, 750, 1.000

### STARTING SYSTEM

Starting power	kW	1,4
Starting power	CV	1,9
Recommended battery	Ah	85
Auxiliary Voltage	Vdc	12



Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- Fuel transfer pump (Optional).



## Control Panels



### M6

Manual volt-free contact start panel and thermal magnetic protection (depending on current and voltage) and differential.

Control unit M6

**NOT PICTURE**



### M7

Digital manual auto-start control panel and thermal magnetic protection (depending on current and voltage) and differential with M7X.

Digital control unit M7X



### 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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- 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 CEAB



## AS5 + CC2

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

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

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- 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 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)
- 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).