HIMOINSA
A YANMAR COMPANY

HYW-45 T5 S5

INDUSTRIAL RANGE
Powered by YANMAR

SERVICE		PRP	ESP
POWER	kVA	43	48
POWER	kW	35	38
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/115 230 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)
- (UE) Nº 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, 25ºC, 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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Manufacture facilities:
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Subsidiaries:
PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA | DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA | MOROCOO

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	39,6
Rated Engine Output (ESP)	kW	43,7
Manufacturer		YANMAR
Model		4TNV98CTIHR
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged
Number of cylinders and arrangement		4-L
Bore and Stroke	mm	98 x 110
Displacement	L	3,319
Cooling System		Coolant
Lube Oil Specifications		API CJ-4, ACEA E6, JASO DH-2
Compression Ratio		18,1

Total oil capacity	L	10,5
Total coolant capacity	L	4,5
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
- Electronic governor
- Hot parts protection
- Moving parts protection

Generator Specifications | MECC ALTE

Manufacturer		MECC ALTE
Model		ECP32.2S4C
Poles	No.	4
Connection type (standard)		Series
Mounting type		S-3 11"1/2
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

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WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	1850
Height (H)	mm	1410
Width (W)	mm	780
Maximum shipping volume	m³	2,03
Weight with liquids in radiator and sump	Kg	619
Fuel tank capacity	L	120
Autonomy (70% PRP)	Hours	17
Autonomy (100% PRP)	Hours	12

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	480
Exhaust Gas Flow	m³/min	10,69
Maximum allowed back pressure	mm H2o	1000
Exhaust Flange Size (external diameter)	mm	60

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	194,16
Cooling Air Flow	m³/s	1,176
Alternator fan air flow	m³/s	0,262

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	11,65
Fuel Consumption 100% PRP	l/h	10,13
Fuel Consumption 70 % PRP	l/h	7,04
Fuel Consumption 50 % PRP	l/h	5,6

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	120

STARTING SYSTEM

Starting power	kW	2,3
Starting power	CV	3,13
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).

ISO 9001
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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

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AS5

Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM8 unit. (*) AS5 as optional with CEA8 unit. Automatic panel without transfer switch and WITH mains control.

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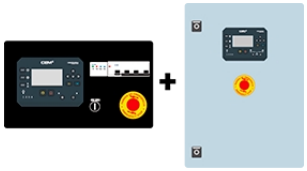
Data Sheet CEM8

Data Sheet CEA8



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.
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- Maximum flexibility: compact or distributed mounting and configurable I/O. Compatible with Stage V and Tier 4 Final engines.
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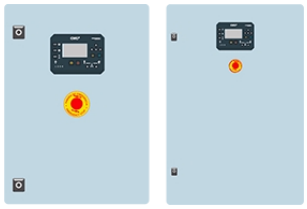
Data Sheet CEM8

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)
- Battery Switch
- 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)