HIMOINSA
A YANMAR COMPANY

HSW-325 T5

INDUSTRIAL RANGE
Powered by SCANIA

SERVICE		PRP / DCP	ESP
POWER	kVA	331	362
POWER	kW	265	290
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, 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.

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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Manufacture facilities:
SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

Subsidiaries:
PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA | DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA | MOROCOO

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.

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Engine Specifications | 1.500 r.p.m.

Rated Engine Output (PRP) / DCP	kW	283
Rated Engine Output (ESP)	kW	311
Manufacturer		SCANIA
Model		DC9-72A(02-14)
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		5-L
Bore and Stroke	mm	130 x 140
Displacement	L	9,3
Cooling System		Coolant
Lube Oil Specifications		ACEA E3,E4,E5 or E7
Compression Ratio		16:1

Lube oil consumption with full load	g/kWh	0,2
Total oil capacity	L	38
Total coolant capacity	L	38
Governor	Type	Electrical
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
Model		ECO38 3L/4 A
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-1 14"
Insulation	Class	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

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WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	3310
Height (H)	mm	1714
Width (W)	mm	1390
Maximum shipping volume	m³	7,89
Weight with liquids in radiator and sump	Kg	2467
Fuel tank capacity	L	597
Autonomy (70% PRP)	Hours	13
Autonomy (100% PRP)	Hours	9

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	525
Exhaust Gas Flow	kg/s	0,417
Maximum allowed back pressure	mbar	100
Heat dissipated by exhaust pipe	KCal/Kwh	629,85

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	1216,2
Cooling Air Flow	m³/s	8,5
Alternator fan air flow	m³/s	0,533

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	72,62
Fuel Consumption 100% PRP	l/h	66,2
Fuel Consumption 70 % PRP	l/h	44,52
Fuel Consumption 50 % PRP	l/h	32,09

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	597

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).

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FEATURES OF THE CONTROL UNITS

		CEM 7	CEA 7	CEC 7	CEM7 + CEC7
Generator Readings	Voltage between phases	•	•	•	•
	Voltage between neutral and phase	•	•	•	•
	Current intensities	•	•	•	•
	Frequency	•	•	•	•
	Apparent power (Kva)	•	•	•	•
	Active power (Kw)	•	•	•	•
	Reactive power (kVAr)	•	•	•	•
	Power factor	•	•	•	•
Mains Readings	Voltage between phases		•	•	•
	Voltage between phases and neutral		•	•	•
	Current intensities		•	•	•
	Frequency		•	•	•
	Apparent power		•		
	Active power		•		
	Reactive power		•		
	Power factor		•		
Engine Readings	Coolant temperature	•	•		•
	Oil pressure	•	•		•
	Fuel level (%)	•	•		•
	Battery voltage	•	•		•
	R.P.M.	•	•		•
	Battery charge alternator voltage	•	•		•
Engine Protections	High water temperature	•	•		•
	High water temperature by sensor	•	•		•
	Low water temperature by sensor	•	•		•
	Low oil pressure	•	•		•
	Low oil pressure by sensor	•	•		•
	Low water level	•	•		•
	Unexpected shutdown	•	•		•
	Fuel storage	•	•		•
	Fuel storage by sensor	•	•		•
	Stop failure	•	•		•
	Battery voltage failure	•	•		•
	Battery charge alternator failure	•	•		•
	Overspeed	•	•		•
	Underspeed	•	•		•
	Start failure	•	•		•
	Emergency stop	•	•	•	•

• Standard ⓞ Optional

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		CEM 7	CEA 7	CEC 7	CEM7 + CEC7
Alternator Protections	High frequency	●	●	●	●
	Low frequency	●	●	●	●
	High voltage	●	●	●	●
	Low voltage	●	●	●	●
	Short-circuit	●	●		●
	Asymmetry between phases	●	●	●	●
	Incorrect phase sequence	●	●	●	●
	Inverse power	●	●		●
	Overload	●	●		●
	Genset signal drop	●	●	●	●
Counters	Total hour counter	●	●	●	●
	Partial hour counter	●	●	●	●
	Kilowatt meter	●	●	●	●
	Starts valid counters	●	●	●	●
	Starts failure counters	●	●	●	●
	Maintenance	●	●	●	●
Communications	RS232	ⓞ	ⓞ	ⓞ	ⓞ
	RS485	ⓞ	ⓞ	ⓞ	ⓞ
	Modbus IP	ⓞ	ⓞ	ⓞ	ⓞ
	Modbus	ⓞ	ⓞ	ⓞ	ⓞ
	CCLAN	ⓞ	ⓞ		ⓞ
	Software for PC	ⓞ	ⓞ	ⓞ	ⓞ
	Analogue modem	ⓞ	ⓞ	ⓞ	ⓞ
	GSM/GPRS modem	ⓞ	ⓞ	ⓞ	ⓞ
	Remote screen	ⓞ	ⓞ		ⓞ
	Tele signal	ⓞ (8 + 4)	ⓞ (8 + 4)		ⓞ (8 + 4)
	J1939	ⓞ	ⓞ		ⓞ
Features	Alarm history	● (100)	● (100)	● (100)	● (100)
	External start	●	●	●	●
	Start inhibition	●	●	●	●
	Mains failure start		●	●	●
	Start under normative EJP	●	●		●
	Pre-heating engine control	●	●		●
	Genset contactor activation	●	●	●	●
	Mains & Genset contactor activation		●	●	●
	Fuel transfer control	●	●		●
	Engine temperature control	●	●		●
	Manual override	●	●		●
	Programmable alarms	●	●		●
	Genset start function in test mode	●	●	●	●
	Programmable outputs	●	●		●
	Multilingual	●	●	●	●
Special Functions	GPS Positioning	ⓞ	ⓞ		ⓞ
	Synchronisation				
	Mains synchronization				
	Second Zero elimination				
	RAM7	ⓞ	ⓞ		ⓞ
	Remote screen	ⓞ	ⓞ		ⓞ

● Standard ⓞ Optional

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CONTROL PANELS

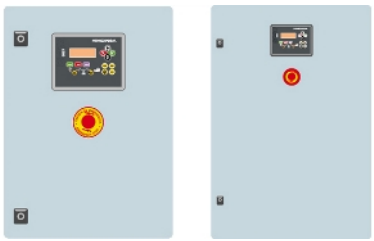
M5

Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7.

Digital control unit CEM7

AS5

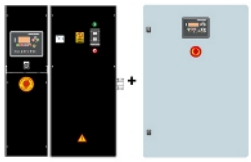
Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



CC2

Himoinsa Switching cabinet WITH display.

Digital control unit CEC7



AS5 + CC2

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

Digital control unit CEM7+CEC7

AC5

Automatic mains failure control panel. Wall-mounted cabinet WITH transfer switch and thermal magnetic protection (depending on current and voltage).

Digital control unit CEA7

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)

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