

HYW-9 M5

INDUSTRIAL RANGE **Powered by YANMAR**



SERVICE		PRP	ESP
POWER	kVA	7,2	7,8
POWER	kW	5,8	6,2
RATED SPEED	r.p.m.	1.5	00
MAIN VOLTAGE	V	230 \	/ (m)
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

- 2006/42/CE Machinery safety.
 2014/30/UE Electromagnetic compatibility.
 2014/30/UE electrical equipment designed for use within certain voltage limits
 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by
- FN 12100, FN 13857, FN 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

HIMOINSA HEADOUARTERS:

Fibrica: Cra. Murcia - San Javier, Km. 23,6 | 30730 SAN JAVIER (Murcia) Spain Tel.+34 968 19 11 28 Fax +34 968 19 12 17 Fax +34 968 19 04 20 | info@himoinsa.com | www.himoinsa.com

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

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



STANDARD SOUNDPROOFING



A10



WATER-COOLED



SINGLE 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)	kW	8,2
Rated Engine Output (ESP)	kW	9
Manufacturer		YANMAR
Model		3TNV76GGEH
Engine Type		4-stroke diesel
Injection Type		Indirect
Aspiration Type		Natural
Number of cylinders and arrangement		3-L
Bore and Stroke	mm	76 x 82
Displacement	L	1,116
Cooling System		Coolant
Lube Oil Specifications		SAE 3 class 10W30 / API grade CD,CF
Compression Ratio		23,5

Lube oil consumption with full load	g/kWh	0,27
Total oil capacity	L	3,5
Total coolant capacity	L	3,7
Governor	Туре	Mechanical
Air Filter	Туре	Dry
Inner diameter exhaust pipe	mm	40



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



Generator Specifications | MECC ALTE

Manufacturer		MECC ALTE
Model		ECP28.1S4C
Poles	No.	4
Connection type (standard)		Double delta
Mounting type		S-5 7"1/2
Insulation	Class	H class

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

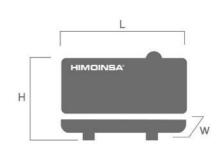






WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version	High Capacity version
Length (L)	mm	1480	1480	1480
Height (H)	mm	1104	1208	1275
Width (W)	mm	750	750	750
Maximum shipping volume	m³	1,23	1,34	1,42
Weight with liquids in radiator and sump	Kg	457	Ask	572
Fuel tank capacity	L	22	40	100
Autonomy (70% PRP)	Hours	13	24	59
Autonomy (100% PRP)	Hours	10	17	43
		Plastic tank	Steel tank	Steel tank



SOUND PRESSURE

Cound procesure level	4P/A\@7m	EQ + 2.4	
Sound pressure level	dB(A)@7m	59 ± 2,4	

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	390
Exhaust Gas Flow	m³/min	2,08
Maximum allowed back pressure	mm H2o	1000
Exhaust Flange Size (external diameter)	mm	50

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	45,16
Cooling Air Flow	m³/s	0,583
Alternator fan air flow	m³/s	0,11

FUEL CONSUMPTION

Fuel Consumption ESP	l/h	2,53
Fuel Consumption 100% PRP	l/h	2,31
Fuel Consumption 70 % PRP	l/h	1,7
Fuel Consumption 50 % PRP	l/h	1,4

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	22
Other fuel tank capacities	L	40, 100

STARTING SYSTEM

Starting power	kW	1,1	
Starting power	CV	1,5	
Recommended battery	Ah	66	
Auxiliary Voltage	Vdc	12	



Soundproofed version





- 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)
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug

- 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).





FEATURES OF THE CONTROL UNITS

	M6	CEM 7	CEA 7	CEC 7	CEM7 + CEC7
	Voltage between phases	•	•	•	•
	Voltage between neutral and phase	•	•	•	•
m	Current intensities	•	•	•	•
Generator Readings	Frequency	•	•	•	•
	Apparent power (Kva)	•	•	•	•
	Active power (Kw)	•	•	•	•
	Reactive power (kVAr)	•	•	•	•
	Power factor	•	•	•	•
	Voltage between phases		•	•	•
	Voltage between phases and neutral		•	•	•
	Current intensities		•	•	•
	Frequency		•	•	•
Readings	Apparent power		•		
Zeac	Active power		•		
<u>o</u>	Reactive power		•		
Zair	Power factor		•		
	Coolant temperature	•	•		•
ø	Oil pressure	•	•		•
Readings	Fuel level (%)	•	•		•
Rea	Battery voltage	•	•		•
ji Bi	R.P.M.	•	•		•
Engin	Battery charge alternator voltage	•	•		•
	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	•	•		•
Protections	Battery charge alternator failure	•	•		•
tect	Overspeed	•	•		•
Ģ	Underspeed	•	•		•
Engine	Start failure •	•	•		•
Ē	Emergency stop •	•	•	•	•

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		М6	CEM 7	CEA 7	CEC 7	CEM7 + CEC7
	High fraguency	1.10	OLINI 7	•	•	•
	High frequency		•	•	•	•
	Low frequency High voltage		•	•	•	•
	Low voltage		•	•	•	•
S			•			
탸	Short-circuit			•		•
ote	Asymmetry between phases		•	•	•	•
ĕ	Incorrect phase sequence		•	•	•	•
natc	Inverse power		•	•		•
ter	Overload		•	•		•
∢	Genset signal drop		•	•	•	•
	Total hour counter		•	•	•	•
	Partial hour counter		•	•	•	•
	Kilowatt meter		•	•	•	•
Sers	Starts valid counters		•	•	•	•
Ž	Starts failure counters		•	•	•	•
ů	Maintenance		•	•	•	•
	RS232		0	0	0	0
	RS485		0	0	0	0
	Modbus IP		0	0	0	0
	Modbus		0	0	0	0
	CCLAN		0	0		0
	Software for PC		0	0	0	0
S	Analogue modem		0	0	0	0
atio	GSM/GPRS modem		0	0	0	0
Ē	Remote screen		0	0		0
Ē	Tele signal		① (8 + 4)	① (8 + 4)		① (8 + 4)
ů	J1939		0	0		0
	Alarm history		• •	• •	• 9	• 9
	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		•	•		•
S O	Genset start function in test mode		•	•	•	•
atur	Programmable outputs		•	•		•
Ē	Multilingual		•	•	•	•
	GPS Positioning		0	0		0
Su	Synchronisation					
otio	Mains synchronization					
Ē	Second Zero elimination					
acial	RAM7	-	0	0		0
Spe	Remote screen					0
co co	Kemote screen		0	0		0

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CONTROL **PANELS**



M6

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

Control unit M6



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



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)

Electrical system

- Ground connection electrical installation with connection ready for ground spike (not supplied)
- Battery Switch (Optional).

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