HIMOINSA
A YANMAR COMPANY

MODEL
HBW-920 T6
HEAVY RANGE
Standard soundproofing
Powered by BAUDOUIN



- L
- WATER-COOLED
- THREE PHASE
- 60 HZ
- DIESEL

Generating Rates

SERVICE		PRP	ESP
Power	kVA	960	1050
Power	kW	768	840
Rated Speed	r.p.m.	1.800	
Main voltage	V	480/277	
Available Voltages	V	380/220 - 416/240 - 440/254	
Rated at power factor	Cos Phi	0,8	

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.

Limited-time running power (LTP):
According to ISO 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 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

"Class G2" performance according to the load impact test according to ISO 8528-5:2020

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Engine Specifications 1.800 r.p.m.

ENGINE		PRP	ESP
Rated Engine Output	kW	873,8	965,8
Manufacturer		BAUDOUIN	
Model		12M26G900.6	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		12-V	
Bore and Stroke	mm	150 x 150	
Displacement	L	31,8	
Cooling System		Liquid (water + 50% glycol)	
Lube Oil Specifications		API CI-4 or ACEA E7	
Compression Ratio		15,7:1	
Lube oil consumption with full load		0,3 % of fuel consumption	
Total oil capacity including tubes, filters	L	114	
Total coolant capacity	L	148	
Governor	Type	Electrical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	200	

Generator

Generator		
Manufacturer		MECC ALTE
Poles	No.	4
Connection type (standard)		Star - Parallel
Mounting type		S-0 18"
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)

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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	550
Exhaust Gas Flow	m^3/min	225,5
Maximum allowed back pressure	mbar	75
Exhaust Flange Size (external diameter)	mm	200

Necessary Amount Of Air		
Intake air flow	m^3/h	5166
Cooling Air Flow	m^3/s	18
Alternator fan air flow	m^3/s	1,8

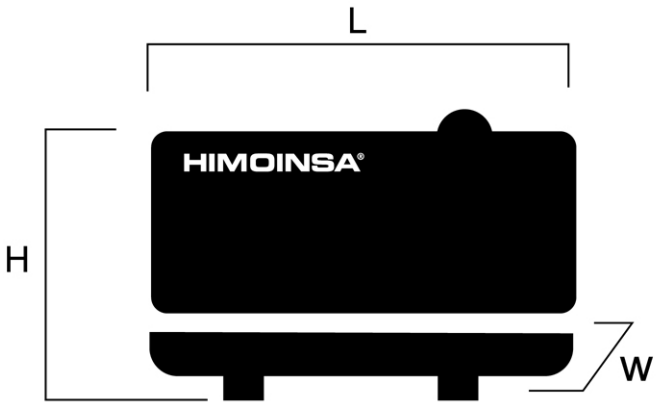
Starting System		
Starting power	kW	10
Starting power	CV	13,6
Auxiliary Voltage	Vdc	24

Fuel System		
Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	375
Maximum return feed pump	mm Hg	375
Fuel Tank	L	1.000
Fuel Consumption ESP	l/h	242
Fuel Consumption 100% PRP	l/h	217,3
Fuel Consumption 70 % PRP	l/h	153,98
Fuel Consumption 50 % PRP	l/h	113,9

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Dimensions



Weight and Dimensions		
(L) Length	mm	5.960
(H) Height	mm	2.860
(W) Width	mm	2.620
Maximum shipping volume	m^3	44,69
(*) Weight with liquids in radiator and sump	kg	9.952
Fuel tank capacity	L	1.000,0
Autonomy (70% PRP)	Hours	6
Autonomy (100% PRP)	Hours	5
Sound pressure level	dB(A)@7m	0 ± 2,4

(*) (with standard accessories)

STANDARD VERSION (Steel tank)

Himoinsa China 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.
Industrial design under patent.

Local Distributor

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CONTROL PANEL MODEL

M5

Control panel with CEM8 Auto-Start controller, thermal-magnetic and earth leakage relay (according to voltage and frequency). Digital control unit CEM 8

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. Digital control unit CEM8 CEA8

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 CEM8+CEC8

CC2

Himoinsa Switching cabinet WITH display. Digital control unit CEC8

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Controller features (I)

• : Standard
x : Not included
• : Optional

Generator Readings	CEM 8
Voltage between phases	•
Voltage between neutral and phase	•
Current intensities	•
Frequency	•
Apparent power (Kva)	•
Active power (Kw)	•
Reactive power (kVAr)	•
Power factor	•
Mains Readings	**CEM 8**
Voltage between phases	x
Voltage between phases and neutral	x
Current intensities	x
Frequency	x
Apparent power	x
Active power	x
Reactive power	x
Power factor	x
Engine Readings	**CEM 8**
Coolant temperature	•
Oil pressure	•
Fuel level (%)	•
Battery voltage	•
R.P.M.	•
Battery charge alternator voltage	•
Engine Protections	**CEM 8**
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	•

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Controller features (II)

• : Standard
x : Not included
• : Optional

Engine Protections	CEM 8
Fuel storage	•
Fuel storage by sensor	•
Stop failure	•
Battery voltage failure	•
Battery charge alternator failure	•
Overspeed	•
Underspeed	•
Start failure	•
Emergency stop	•
Alternator Protections	**CEM 8**
High frequency	•
Low frequency	•
High voltage	•
Low voltage	•
Short-circuit	•
Asymmetry between phases	•
Incorrect phase sequence	•
Inverse power	•
Overload	•
Genset signal drop	•
Counters	**CEM 8**
Total hour counter	•
Partial hour counter	•
Kilowatt meter	•
Starts valid counters	
Starts failure counters	•
Maintenance	•
Communications	**CEM 8**
RS232	x
RS485	•
Modbus IP	•
Modbus	•

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Controller features (III)

• : Standard
x : Not included
• : Optional

Communications	CEM 8
CCLAN	•
Software for PC	•
Analogue modem	•
GSM/GPRS modem	x
Remote screen	•
Tele signal	•
J1939	•
Features	**CEM 8**
Alarm history	•
External start	•
Start inhibition	•
Mains failure start	x
Start under normative EJP	•
Pre-heating engine control	•
Genset contactor activation	•
Mains & Genset contactor activation	x
Fuel transfer control	•
Engine temperature control	•
Manual override	•
Programmable alarms	•
Genset start function in test mode	•
Programmable outputs	•
Multilingual	•
Special Functions	**CEM 8**
GPS Positioning	x
Synchronisation	x
Mains synchronization	x
Second Zero elimination	x
RAM7	•
Remote screen	•

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Generator set features

Engine

· Oil temperature sensor
· Low coolant level sensor
· Exhaust gas compensator
· Diesel engine
· 4-stroke cycle
· Water-cooled
· 24V electrical system
· Standard air filter
· Standard fuel filter
· Standard oil filter
· Radiator with pusher fan
· Radiator water level sensor
· HTW sender
· LOP sender
· Hot parts protection
· Moving parts protection

Alternator

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

Electrical system

· Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
· Connection panel wired to the safety protection (open thermal magnetic protection and alarm)
· Maintenance-free and anti-explosion battery
· Battery Switch
· 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)

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Generator set features

Electrical system

· Ground connection electrical installation with connection ready for ground spike (not supplied)

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
· Chassis drain plug
· Steel residential silencer -35db(A) attenuation.
· Oil sump extraction kit
· IP Protection according to ISO 8528-13:2016

Optional : · 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings)
· Fuel transfer pump

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PDF Summary

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Page 1. Genset data
Page 2. Engine Specifications. Generator Specifications.
Page 3. Installation Data
Page 4. Dimensions
Page 5. Control Panel Model
Page 6. Controller features (I)
Page 7. Controller features (II)
Page 8. Controller features (III)
Page 9. Generator Features & Options
Page 10. Generator Features & Options
Page 11. PDF Summary



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