HIMOINSA
A YANMAR COMPANY

MODEL
HBW-1900 T5
HEAVY RANGE
Container
Powered by BAUDOUIN



- 40FT-HC
- WATER-COOLED
- THREE PHASE
- 50 HZ
- DIESEL

Generating Rates

SERVICE		PRP / DCP	ESP
Power	kVA	1937	2080
Power	kW	1549	1664
Rated Speed	r.p.m.	1.500	
Main voltage	V	400/230	
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 Standard ISO 8528-1:2020, this is the maximum power available for a limited operating time of 500 Hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

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

Data Center Power (DCP): Complies with Uptime Institute. The manufacturer declares an acceptable average load factor 100% for an unlimited number of hours. 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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Engine Specifications 1.500 r.p.m.

ENGINE		PRP / DCP	ESP
Rated Engine Output	kW	1604	1724
Manufacturer		BAUDOUIN	
Model		16M33G2000.5	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		16-V	
Bore and Stroke	mm	150 x 185	
Displacement	L	52,3	
Cooling System		Liquid (water + 50% glycol)	
Lube Oil Specifications		API CI-4 or ACEA E7	
Compression Ratio		15 : 1	
Lube oil consumption with full load		0,3 % of fuel consumption	
Total oil capacity including tubes, filters	L	175	
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	383,2
Maximum allowed back pressure	mbar	75

Necessary Amount Of Air		
Cooling Air Flow	m^3/s	39
Alternator fan air flow	m^3/s	2,25

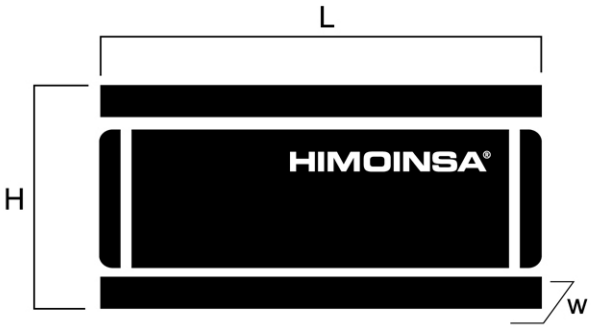
Starting System		
Starting power	kW	8,5 x 2
Starting power	CV	11,56 x 2

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	2.000
Fuel Consumption ESP	l/h	446,8
Fuel Consumption 100% PRP	l/h	401
Fuel Consumption 70 % PRP	l/h	271,5
Fuel Consumption 50 % PRP	l/h	194,7

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Dimensions



40 hc	Weight and Dimensions		
(L)	Length	mm	12.192
(H)	Height	mm	2.900
(W)	Width	mm	2.438
	Maximum shipping volume	m^3	86,2
(*)	Weight with liquids in radiator and sump	kg	23.550
	Fuel tank capacity	L	2.000,0
	Autonomy (70% PRP)	Hours	7
	Autonomy (100% PRP)	Hours	5
	Sound pressure level	dB(A)@7m	84 ± 2,4

(*) (with standard accessories)

STANDARD VERSION

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

CC2

Himoinsa Switching cabinet WITH display. Digital control unit CEC7

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

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Controller features (I)

• : Standard
x : Not included
• : Optional

Generator Readings	CEC 7	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	**CEC 7**	**CEM 8**
Voltage between phases	•	x
Voltage between phases and neutral	•	x
Current intensities	•	x
Frequency	•	x
Apparent power	x	x
Active power	x	x
Reactive power	x	x
Power factor	x	x
Engine Readings	**CEC 7**	**CEM 8**
Coolant temperature	x	•
Oil pressure	x	•
Fuel level (%)	x	•
Battery voltage	x	•
R.P.M.	x	•
Battery charge alternator voltage	x	•
Engine Protections	**CEC 7**	**CEM 8**
High water temperature	x	•
High water temperature by sensor	x	•
Low water temperature by sensor	x	•
Low oil pressure	x	•
Low oil pressure by sensor	x	•
Low water level	x	•
Unexpected shutdown	x	•

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Controller features (II)

• : Standard
x : Not included
• : Optional

Engine Protections	CEC 7	CEM 8
Fuel storage	x	•
Fuel storage by sensor	x	•
Stop failure	x	•
Battery voltage failure	x	•
Battery charge alternator failure	x	•
Overspeed	x	•
Underspeed	x	•
Start failure	x	•
Emergency stop	•	•
Alternator Protections	**CEC 7**	**CEM 8**
High frequency	•	•
Low frequency	•	•
High voltage	•	•
Low voltage	•	•
Short-circuit	x	•
Asymmetry between phases	•	•
Incorrect phase sequence	•	•
Inverse power	x	•
Overload	x	•
Genset signal drop	•	•
Counters	**CEC 7**	**CEM 8**
Total hour counter	•	•
Partial hour counter	•	•
Kilowatt meter	•	•
Starts valid counters	•	
Starts failure counters	•	•
Maintenance	•	•
Communications	**CEC 7**	**CEM 8**
RS232	•	x
RS485	•	•
Modbus IP	•	•
Modbus	•	•

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Controller features (III)

• : Standard
x : Not included
• : Optional

Communications	CEC 7	CEM 8
CCLAN	x	•
Software for PC	•	•
Analogue modem	•	•
GSM/GPRS modem	•	x
Remote screen	x	•
Tele signal	x	•
J1939	x	•
Features	**CEC 7**	**CEM 8**
Alarm history	• (100)	•
External start	•	•
Start inhibition	•	•
Mains failure start	•	x
Start under normative EJP	x	•
Pre-heating engine control	x	•
Genset contactor activation	•	•
Mains & Genset contactor activation	•	x
Fuel transfer control	x	•
Engine temperature control	x	•
Manual override	x	•
Programmable alarms	x	•
Genset start function in test mode	•	•
Programmable outputs	x	•
Multilingual	•	•
Special Functions	**CEC 7**	**CEM 8**
GPS Positioning	x	x
Synchronisation	x	x
Mains synchronization	x	x
Second Zero elimination	x	x
RAM7	x	•
Remote screen	x	•

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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
· HTW sender
· LOP sender
· Electronic governor
· Hot parts protection
· Moving parts protection

Alternator

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

Container version

· Soundproofing provided by high-density volcanic rock wool
· High mechanical resistance
· Low level of noise emissions
· Door with window to visualize control panel, alarms and measurements
· Reinforced lifting points for crane hoisting and lower ones for transportation by forklift
· Residential steel silencer with -35dB attenuation and tilting cap in the exhaust
· Fuel tank integrated in the chassis
· Anti-vibration shock absorbers

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Generator set features

Container version

· Steel chassis
· Manual oil extraction pump
· Robust construction designed for continuous or emergency applications
· Stainless steel fittings
· Emergency stops
· Easy access to the power connection
· Reinforced chassis for heavy range
· Easy access for chassis cleaning
· Silent-block with anti-corrosion protection between the genset and the chassis
· Easy access to fill radiator through the roof

Electrical System Container

· Control panel and emergency stop button
· Power panel
· Battery charger (standard on automatic control panels)
· Water Jacket Heater with single phase pump
· Battery charge alternator with ground connection
· Starter battery/ies installed (cables and bracket included)
· Ground connection electrical installation with connection ready for ground spike (not supplied)
· Power panel with safety protection in output terminals box (open thermal magnetic protection and alarm)
· Maintenance-free and anti-explosion battery
· Battery isolator

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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

