HIMOINSA
A YANMAR COMPANY

MODEL
HBW-2000 T5
HEAVY RANGE
Open Skid
Powered by BAUDOUIN



- OPEN SKID
- WATER-COOLED
- THREE PHASE
- 50 HZ
- DIESEL

Generating Rates

SERVICE		PRP / DCP	ESP
Power	kVA	2123	2326
Power	kW	1698	1861
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 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

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	1768	1938
Manufacturer		BAUDOUIN	
Model		20M33G2250.5	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		20-V	
Bore and Stroke	mm	150 x 185	
Displacement	L	65,4	
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	235	
Total coolant capacity	L	270	
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-00 21"
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)

ISO 9001 SYSTEM CERTIFICATION
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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	550
Exhaust Gas Flow	m^3/min	416,4
Maximum allowed back pressure	mbar	75

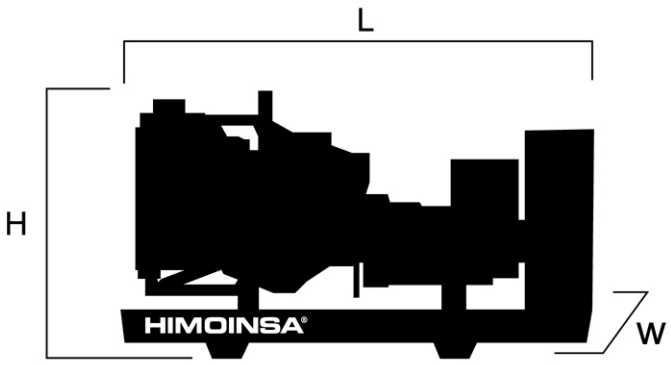
Necessary Amount Of Air		
Cooling Air Flow	m^3/s	58
Alternator fan air flow	m^3/s	2,25

Starting System		
Starting power	kW	10 x 2
Starting power	CV	13,6 x 2

Fuel System		
Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	375
Maximum return feed pump	mm Hg	150
Fuel Tank	L	0
Fuel Consumption ESP	l/h	478
Fuel Consumption 100% PRP	l/h	432,8
Fuel Consumption 70 % PRP	l/h	306,2
Fuel Consumption 50 % PRP	l/h	223,4

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Dimensions



Weight and Dimensions		
(L) Length	mm	Ask
(H) Height	mm	Ask
(W) Width	mm	Ask
(*) Weight with liquids in radiator and sump	kg	Ask

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

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

Optional :
· Fuel transfer pump
· Steel industrial silencer -15db(A) attenuation
· Steel residential silencer -35db(A) attenuation.

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PDF Summary

Created : 06/11/2026 12:59
Author : Himoinsa
Number of pages : 6
Report Type: Data Sheet - Heavy range
Generated by: HIMOINSA Engineering Dept.

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