

MODEL: HC-BD165 400V | 1500rpm | 50Hz



<b>ESP</b> Standby Power	165 kVA	<b>PRP</b> Prime Power	150 kVA
<b>ENGINE</b>	Baudouin	<b>ALTERNATOR</b>	LEROY SOMER
	6M11G165/5		TAL-A44-J

## GENERAL FEATURES

Engine: Baudouin 6M11G165/5	Alternator: single bearing, IP23, insulation class H
40°C radiator, fans are driven by belt, with safety guard	Dry type air filter, fuel filter & oil filter
Vibration damper	Standard control panel
24V charging alternator	Exhaust bellows, elbows, flange & muffler
Lead-acid batteries, rack and cables	User manual

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## GENERATOR RATINGS

Voltage	Hz	Phase	PF (COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	217	132kW/165kVA	120kW/150kVA
415/240	50	3	0.8	230	132kW/165kVA	120kW/150kVA
400/230	50	3	0.8	238	132kW/165kVA	120kW/150kVA
380/220	50	3	0.8	251	132kW/165kVA	120kW/150kVA

**Prime Power (PRP):** Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO 8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

**Standby Power Rating (ESP):** The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

## SALES PROMISES

HiChai Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: One year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from HiChai Power or distributors in your location.

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## ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 6M11G165/5
Air intake system	Turbo, intercooling
Fuel system	Mechanical pump
Cylinder arrangement	6 cylinders in line
Displacement	6.75 L
Bore and stroke	105×130 mm
Compression ratio	18:1
Rated speed	1500rpm
Max. Standby power at rated speed	152KW
Governor type	Electronic

## Exhaust System

Exhaust gas flow	24 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	6 kPa

## Air Intake System

Max intake restriction	6 kPa
Combustion air flow	9.3 m <sup>3</sup> /min
Air flow required for radiator	304.5 m <sup>3</sup> /min

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	198.7 g/kWh	32L/h
Fuel consumption @ 75% (Prime Power) Load	199.3 g/kWh	24L/h
Fuel consumption @ 50% (Prime Power) Load	202.7 g/kWh	17L/h

**Oil System**

Total oil capacity	19L
Oil consumption ratio based on fuel consumption data	$\leq 0.2\%$
Oil sump capacity	15-17L

**Cooling System**

Coolant capacity	20L
Max water temperature	105°C

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**ALTERNATOR SPECIFICATION****Alternator Data**

Number of Phase	3
Connecting Type	3 Phase and 4 Wires, Y type connecting
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	< 50
THF	< 2%
Alternator Capacity	150kVA
Alternator Efficiency	91.0%

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## GENERATING SET DATA

Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

## STANDARD FEATURES

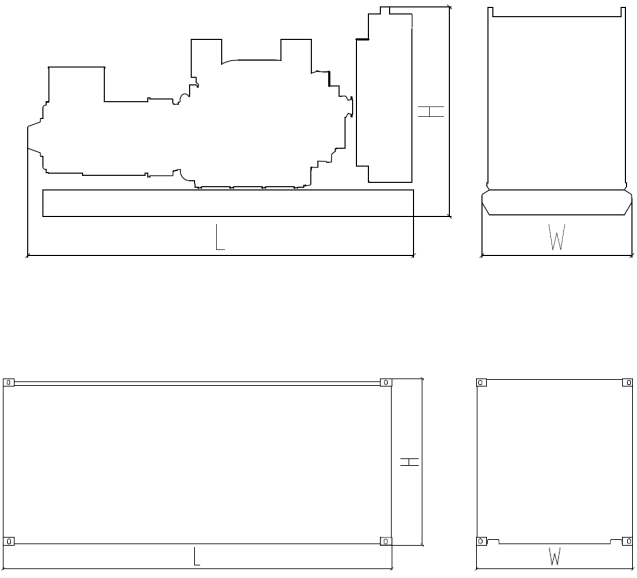
Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
Base fuel tank		

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## OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

## DIMENSIONS & WEIGHT



<b>Standard Configuration (open type with base fuel tank)</b>
Overall Dimensions: 2440×830×1410 mm
Weight: 1520 kg
<b>Soundproof Type</b>
Overall Dimensions: 3230×1170×1800 mm
Weight: 2220 kg

*Specifications are subject to change without notice.*