

MODEL: HC-BD2500

400V | 1500rpm | 50Hz



| | | | |
|-----------------------------|-------------|---------------------------|-----------|
| ESP Standby Power | 2500 kVA | PRP Prime Power | 2275 kVA |
| ENGINE | Baudouin | ALTERNATOR | STAMFORD |
| | 20M33G4D3/5 | | S7L1D-H41 |

GENERAL FEATURES

Engine: Baudouin 20M33G4D3/5

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 Φ) | Standby Amps | Standby Ratings (kW / kVA) | Prime Ratings (kW / kVA) |
|---------|----|-------|---------------------|-----------------|-------------------------------|-----------------------------|
| 440/254 | 50 | 3 | 0.8 | 3280 | 2000kW/2500kVA | 1820kW/2275kVA |
| 415/240 | 50 | 3 | 0.8 | 3478 | 2000kW/2500kVA | 1820kW/2275kVA |
| 400/230 | 50 | 3 | 0.8 | 3609 | 2000kW/2500kVA | 1820kW/2275kVA |
| 380/220 | 50 | 3 | 0.8 | 3798 | 2000kW/2500kVA | 1820kW/2275kVA |

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 20M33G4D3/5 |
| Air intake system | Turbo, intercooling |
| Fuel system | High Pressure Common Rail |
| Cylinder arrangement | 20 cylinders in V |
| Displacement | 65.4 L |
| Bore and stroke | 150×185 mm |
| Compression ratio | 15:1 |
| Rated speed | 1500rpm |
| Max. Standby power at rated speed | 2210KW |
| Governor type | ECU |

Exhaust System

| | |
|---------------------|-------------------------|
| Exhaust gas flow | 517 m ³ /min |
| Exhaust temperature | 550°C |
| Max back pressure | 7.5 kPa |

Air Intake System

| | |
|--------------------------------|--------------------------|
| Max intake restriction | 7.5 kPa |
| Combustion air flow | 156 m ³ /min |
| Air flow required for radiator | 3480 m ³ /min |

Comprehensive Solutions For

POWER GENERATION

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Fuel System

| | | |
|--|----------|---------|
| Fuel consumption @ 100% (Prime Power) Load | 199g/kWh | 462 L/h |
| Fuel consumption @ 75% (Prime Power) Load | 192g/kWh | 338 L/h |
| Fuel consumption @ 50% (Prime Power) Load | 196g/kWh | 237 L/h |

Oil System

| | |
|--|----------|
| Total oil capacity | 240L |
| Oil consumption ratio based on fuel consumption data | ≤ 0.3 % |
| Oil sump capacity | 210-240L |

Cooling System

| | |
|-----------------------|-------|
| Coolant capacity | 410L |
| Max water temperature | 103°C |

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ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

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 | 2325kVA |
| Alternator Efficiency | 96.2% |

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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) | $\leq +20\%$ |
| Transient voltage deviation (sudden power increase) | $\leq -15\%$ |
| Voltage recovery time (100 % sudden power decrease) | $\leq 4S$ |
| Voltage recovery time (sudden power increase) | $\leq 4S$ |
| Related range of frequency setting | 0-5% adjustable |
| Steady-state frequency band | $\leq 0.5\%$ |
| Transient frequency deviation (100 % sudden power decrease) | $\leq +10\%$ |
| Transient frequency deviation (sudden power increase) | $\leq -7\%$ |
| Frequency recovery time (100 % sudden power decrease) | $\leq 3S$ |
| Frequency recovery time (sudden power increase) | $\leq 3S$ |

STANDARD FEATURES

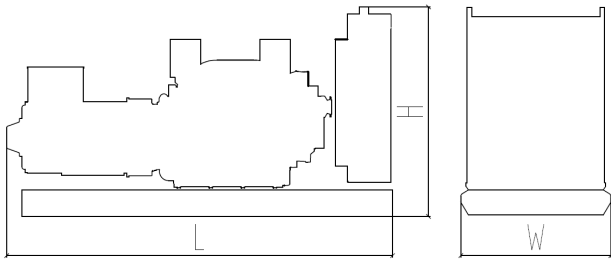
| | | |
|------------------------------|---|-----------|
| Standard auto control system | Exhaust system (including until muffler) | Documents |
| Oil drain valve | Starting batteries (maintenance-free & watering-free) with connective wires | |

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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



| |
|---------------------------------------|
| Standard Configuration (open type) |
| Overall Dimensions: 6250×2320×2600 mm |
| Weight: 15300 kg |
| |
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| |

Specifications are subject to change without notice.