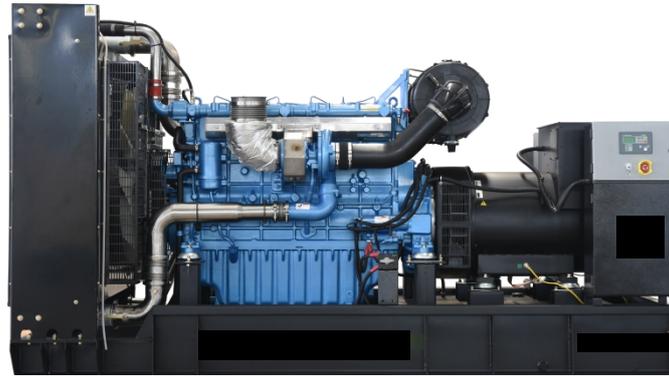


MODEL: HC-BD550-60

440V | 1800rpm | 60Hz



| | | | |
|-----------------------------|-------------------|---------------------------|------------------|
| ESP Standby Power | 550kVA | PRP Prime Power | 500kVA |
| ENGINE | Baudouin | ALTERNATOR | STAMFORD |
| | 6M21G460/6 | | S4L1D-F41 |

GENERAL FEATURES

| | |
|-----------------------------------------------------------|------------------------------------------------------|
| Engine: Baudouin 6M21G460/6 | 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 |
| | |

MODEL: HC-BD550-60**440V | 1800rpm | 60Hz****GENERATOR RATINGS**

| Voltage | Hz | Phase | PF (COS Φ) | Standby Amps | Standby Ratings (kW / kVA) | Prime Ratings (kW / kVA) |
|---------|----|-------|----------------------|-----------------|-------------------------------|-----------------------------|
| 480/277 | 60 | 3 | 0.8 | 662 | 440kW/550kVA | 400kW/500kVA |
| 460/266 | 60 | 3 | 0.8 | 690 | 440kW/550kVA | 400kW/500kVA |
| 440/254 | 60 | 3 | 0.8 | 722 | 440kW/550kVA | 400kW/500kVA |
| 416/240 | 60 | 3 | 0.8 | 763 | 440kW/550kVA | 400kW/500kVA |

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.

MODEL: HC-BD550-60**440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

| | |
|----------------------|---------------------|
| Manufacturer / Model | Baudouin 6M21G460/6 |
|----------------------|---------------------|

| | |
|-------------------|------------------------------|
| Air intake system | Turbocharged and Aftercooled |
|-------------------|------------------------------|

| | |
|-------------|---------------------------|
| Fuel system | High Pressure Common Rail |
|-------------|---------------------------|

| | |
|----------------------|-----------|
| Cylinder arrangement | 6 in line |
|----------------------|-----------|

| | |
|--------------|--------|
| Displacement | 12.54L |
|--------------|--------|

| | |
|-----------------|--------------|
| Bore and stroke | 127 × 165 mm |
|-----------------|--------------|

| | |
|-------------------|------|
| Compression ratio | 15.2 |
|-------------------|------|

| | |
|-------------|---------|
| Rated speed | 1800rpm |
|-------------|---------|

| | |
|-----------------------------------|-------|
| Max. Standby power at rated speed | 510kW |
|-----------------------------------|-------|

| | |
|---------------|-----|
| Governor type | ECU |
|---------------|-----|

Exhaust System

| | |
|------------------|-------------------------|
| Exhaust gas flow | 120 m ³ /min |
|------------------|-------------------------|

| | |
|---------------------|-------|
| Exhaust temperature | 580°C |
|---------------------|-------|

| | |
|-------------------|-------|
| Max back pressure | 12kPa |
|-------------------|-------|

Air Intake System

| | |
|------------------------|------|
| Max intake restriction | 7kPa |
|------------------------|------|

| | |
|---------------------|--------------------------|
| Combustion air flow | 36.6 m ³ /min |
|---------------------|--------------------------|

| | |
|--------------------------------|-------------------------|
| Air flow required for radiator | 569 m ³ /min |
|--------------------------------|-------------------------|

Comprehensive Solutions For

POWER GENERATION

MODEL: HC-BD550-60

440V | 1800rpm | 60Hz

Fuel System

| | | |
|--------------------------------------------|------------|----------|
| Fuel consumption @ 100% (Prime Power) Load | 204.6g/kWh | 107.0L/h |
| Fuel consumption @ 75% (Prime Power) Load | 193.5g/kWh | 76.9L/h |
| Fuel consumption @ 50% (Prime Power) Load | 200.5g/kWh | 54.7L/h |

Oil System

| | |
|------------------------------------------------------------------|--------|
| Total oil capacity | 38L |
| Oil sump capacity | 29-34L |
| Oil fuel consumption ratio based on engine fuel consumption data | ≤ 0.2% |

Cooling System

| | |
|-----------------------|-------|
| Coolant capacity | 62L |
| Max water temperature | 105°C |

MODEL: HC-BD550-60**440V | 1800rpm | 60Hz**

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 | 500kVA |
| Alternator Efficiency | 93.2% |

MODEL: HC-BD550-60

440V | 1800rpm | 60Hz

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 | MCCB |

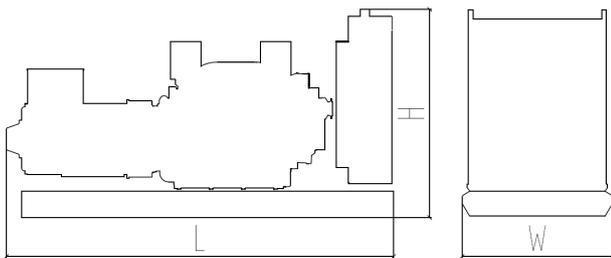
MODEL: HC-BD550-60

440V | 1800rpm | 60Hz

OPTIONS

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

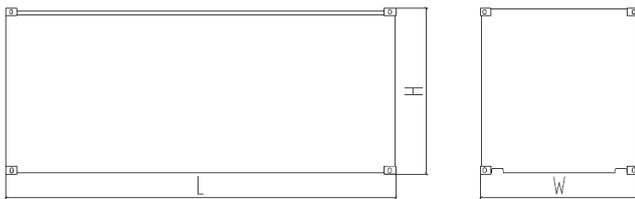
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2950×1110×1730 mm

Weight: 3080 kg



Soundproof Type

Overall Dimensions: 4230×1460×2150 mm

Weight: 4430 kg

Specifications are subject to change without notice.