

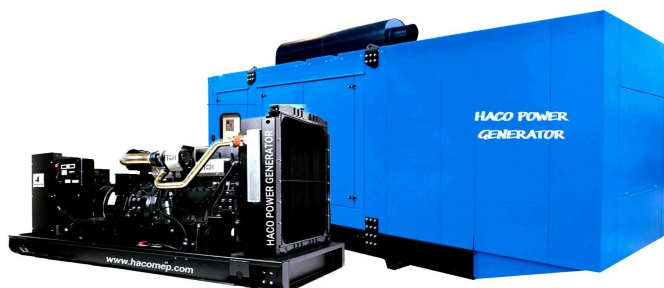
## HCW220B

Standby Power (KVA / KW): 220 / 176

Prime Power (KVA / KW): 200 / 160

### Standard features

- Brand name : HACO POWER GENERATOR
- Engine : Wuling
- Charge alternator : 12V / 24V
- Governor : Electronic
- Single bearing alternator IP 23
- Rated speed : 1500 RPM
- Speed control type : Electronic
- Insulation class H/H
- Radiator 50°C max with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Main line circuit breaker
- 24V battery and cable
- User's manual



(Figure)

### Weight and Dimensions

GEN-Set	Dimension (L x W x H)	Weight
Open Type	2460 × 945 × 1560 mm	1779 kg
Silent Type	3600 × 1200 × 1950 mm	2380 kg

### Generator Ratings

Voltage	Hz	Phase	Power factor	Standby AMP	Standby Rating (KVA/KW)	Prime Rating (KVA/KW)
400/230	50	3	0.8	290	220/176	200/160

#### Haco Power generator

User compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN, 12601:2010
- IS/IEC60034-1, IS 1460, ISO 8528
- ← ISO3046, ISO 9001, IS 13018

#### Standard reference Conditions

Note: Standard reference condition 25 °C (77 °F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2

#### Warranty

All equipment carries full manufacturer's warranty. Extended warranty terms available. For details on warranty cover please contact your local dealer, or visit our website: <http://www.hacomep.com>

#### (1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power.10% overload available for governing purposes only.

#### (2) ESP (Standby Power):

According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

## Engine Data

Manufacturer	WOLING
Engine Specification	WLD206
Type	Water-cooled, in-line, four-stroke, dry liner, direct injection
Bore×Stroke (mm)	114X135
Displacement (L)	8.27
Compression ratio	N/A
Fire order	1-5-3-6-2-4(Close to the fan end is the first cylinder)
Intake Way	turbocharger & intercool
rated output/speed (kW/r/min)	206/1500
Maximum no-load speed (r/min)	N/A
Lowest no-load stable speed (r/min)	600±50

## Information other

Crankshaft steering (viewed from the power output end)	Counterclockwise
Lubrication way	Pressure lubrication
Starting method	electric start

## During calibration

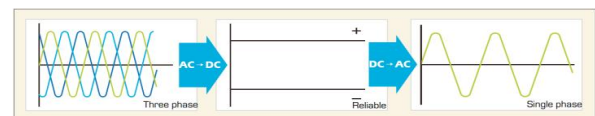
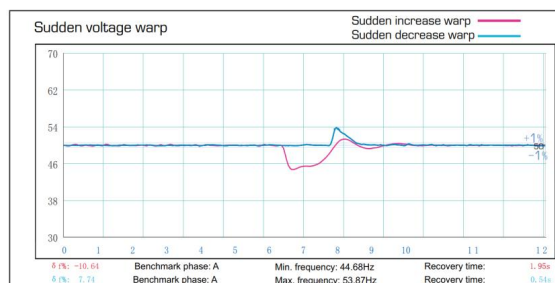
Mean effective pressure (kPa)	N/A
Fuel consumption (g/(kWh))	≤218
Oil consumption rate (g/(kWh))	≤550(After turbo)
Exhaust gas temperature (°C)	N/A

## Generator Data

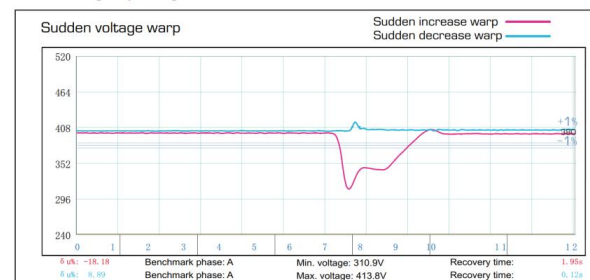


Brand	BURG
Model	B-220-4
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4 number
Bearing	1 number
Coupling	Direct
Exciter type	AREP
Insulation system	Class H
Protection	IP23
Voltage regulation (Max.)	±1%
Winding Pitch	2/3

Emergency frequency curve



Emergency voltage curve



Stator Winding	Double layer lap
Waveform distortion	No load < 1.5 %
Total Harmonic Distortion	Non distorting balanced linear load < 5 %
Maximum Unbalanced Load across phases (With the condition that none of the phases exceeds its rated current)	Less than or equal to 25%
Telephone Interference	THF<2%
AVR	MX321

## Control Panel



- Control Panel is Deepsea DSE6120 a new control module for single gen-set applications, and it is an Automatic Start Control Module and is simple to operate, and the module includes USB, for expansion device connectivity.

- Specifications: Frequency meter, Ammeter, Voltmeter Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min / max alternator, Min / max battery voltage, Low fuel level, Emergency stop.

- Engine parameters: Hours counter, Oil pressure, Water, temperature, Engine speed, Battery voltage, Fuel level.

## Option

Engine	Alternator	Generator Sets	Fuel System
<ul style="list-style-type: none"> <li>- Water Jacket Pre-heater</li> <li>- Fuel heater</li> </ul>	<ul style="list-style-type: none"> <li>- Winding Temp measuring Instrument</li> <li>- Alternator Pre - heater</li> <li>- PMG</li> <li>- Anti-damp and anti-corrosion treatment</li> <li>- Anti-condensation heater</li> <li>- Winding and bearing RTD</li> </ul>	<ul style="list-style-type: none"> <li>- Tools with the machine</li> <li>- Extended range fuel tank</li> <li>- Bunded fuel tank</li> </ul>	<ul style="list-style-type: none"> <li>- Low fuel level alarm</li> <li>- Automatic fuel feeding system</li> <li>- Fuel T-valves</li> </ul>
Canopy	Lub oil system	Cooling System	Control Panel
<ul style="list-style-type: none"> <li>- Rental type</li> <li>- Canopy</li> <li>- Trailer</li> </ul>	<ul style="list-style-type: none"> <li>- Oil temp sensor</li> <li>- Oil Pre-heater</li> </ul>	<ul style="list-style-type: none"> <li>- Front heat protection</li> </ul>	<ul style="list-style-type: none"> <li>- Remote control panel</li> <li>- ATS</li> <li>- Synchronizing controller</li> <li>- Adjustable earth leakage relay</li> </ul>

Note: All data sheets are for reference only and subject to change without prior notice.