



HBD250S

BALANTY

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 90%.
- Altitude: Below one thousand (1000) meters above sea level.

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Baudouin engine 6M16G250/5
- Close coupled to Hyundai alternator HK274J
- DeepSea control module DSE6120
- 320A main circuit breaker: 4P
- Rotate speed governor: EFC
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 2x12V/120AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 18.5 hours running @ 75% Load
- Drain points for fuel tank
- Breather valve for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

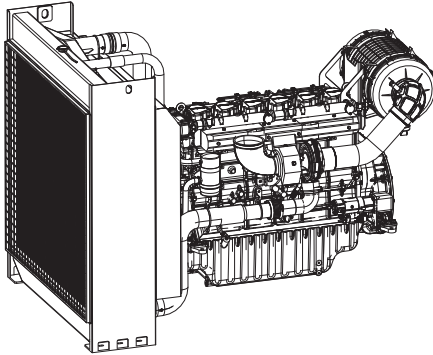


Model.....	HBD250
Structure type	R
Tank capacity.....	940L
Dry weight.....	3428kg
Noise level @7m	74.2dBA
Dimensions L×W×H.....	3900x1280x2252mm
Standby Power	250kVA/200kW
Prime Power	227kVA/181.6kW

Voltage	380V	400V	415V		
Ampere	304A	289A	278A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	13.4	25.8	38	50.9	55.9

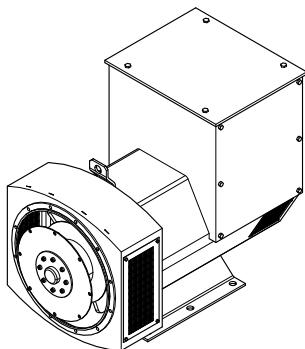


Diesel Engine



Engine Manufacturer/Brand.....	Baudouin
Engine Model.....	6M16G250/5
Dimensions L×W×H.....	1983 x 1033 x 1264mm
Dry Weigh (approx.)	1020kg
Number of Cylinders.....	6
Bore.....	126mm
Stroke	130mm
Displacement.....	9.7L
Compression Ratio	17.0
Type of Injection	Direct
Intake System.....	Turbocharged and Aftercooled
Intake Resistance	≤7.0kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CH4 15W/40
Oil Capacity	22L
Type of Coolant	Glycol Mixture
Coolant capacity.....	42L
Back Pressure	≤ 6kPa
Standby Power	204kW
Prime Power	187kW
Fuel Consumption(100%load).....	43.1L/h

Alternator



Alternator Manufacturer/Brand	Hyundai
Alternator Model	HK274K
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	1m³/s(50Hz), 1.2m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THC at no load < 4 % - on load < 4%	
Telephone Interference.....	THF<2%;TIF<50

DeepSea 6120 Control System

DSE6120 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

4 Overall Dimensions

