

**MODEL: BF-BD880-III**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>880 kVA</b>	<b>PRP</b> Prime Power	<b>800 kVA</b>
<b>ENGINE</b>	<b>Baudouin</b> <b>8M33G2D3/5</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S6L1D-C4</b>

## GENERAL FEATURES

Engine: Baudouin 8M33G2D3/5, certified for China Stage III emission standard

40°C radiator, fans are driven by belt, with safety guard

Vibration damper

24V charging alternator

Lead-acid batteries, rack and cables

Alternator: single bearing, IP23, insulation class H

Dry type air filter, fuel filter & oil filter

Standard control panel

Exhaust bellows, elbows, flange & muffler

User manual

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Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	1155	704kW/880kVA	640kW/800kVA
415/240	50	3	0.8	1224	704kW/880kVA	640kW/800kVA
400/230	50	3	0.8	1270	704kW/880kVA	640kW/800kVA
380/220	50	3	0.8	1337	704kW/880kVA	640kW/800kVA

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**

Baifa 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: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

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

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## ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 8M33G2D3/5
Air intake system	Turbo, intercooling
Fuel system	High pressure common rail
Cylinder arrangement	8 cylinders in V
Displacement	26 L
Bore and stroke	150×185 mm
Compression ratio	15:1
Rated speed	1500rpm
Max. Standby power at rated speed	800KW
Governor type	ECU

## Exhaust System

Exhaust gas flow	175 m <sup>3</sup> /min
Exhaust temperature	600°C
Max back pressure	7.5 kPa

## Air Intake System

Max intake restriction	6.5 kPa
Combustion air flow	50 m <sup>3</sup> /min
Air flow required for radiator	1140 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	198.4 g/kWh	164 L/h
Fuel consumption @ 75% (Prime Power) Load	195 g/kWh	122 L/h
Fuel consumption @ 50% (Prime Power) Load	200.8 g/kWh	86 L/h

**Oil System**

Total oil capacity	108L
Oil consumption ratio based on fuel consumption data	$\leq 0.3 \%$
Oil sump capacity	90-105L

**Cooling System**

Coolant capacity	163L
Max water temperature	101°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	810kVA
Alternator Efficiency	94.4%

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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	MCCB

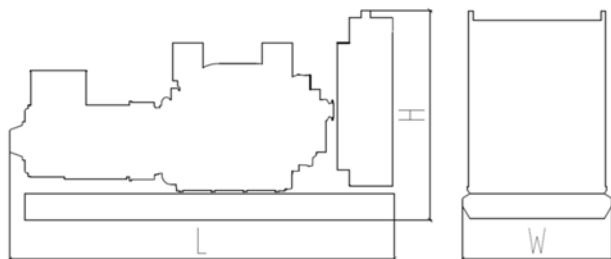
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## OPTIONS

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

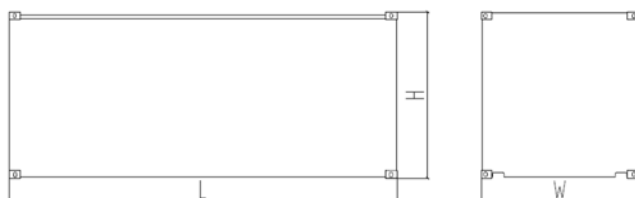
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 3900×1735×2210mm

Weight: 6600 kg



### Soundproof Type (standard 20'ft HQ container)

Overall Dimensions: 6058×2438×2896 mm

Weight: 11600 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

**WEBSITE: WWW.BAIFAPOWER.COM**

**EMAIL: MARKETING@BAIFAPOWER.COM**

**TEL: +86-510-85342633**