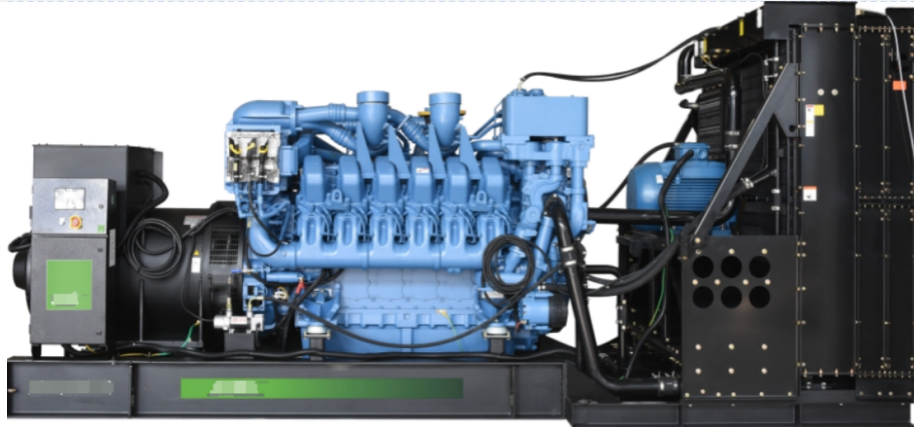


**MODEL: HC-1800GF2-G43**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>2000kVA</b>	<b>PRP</b> Prime Power	<b>N/A</b>
<b>ENGINE</b>	<b>MTU</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>12V4000G43S</b>		<b>PI734D1</b>

## GENERAL FEATURES

Engine: MTU 12V4000G43S

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by motor, 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-1800GF2-G43****440V | 1800rpm | 60Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	2406	1600kW/2000kVA	N/A
460/266	60	3	0.8	2510	1600kW/2000kVA	N/A
440/254	60	3	0.8	2624	1600kW/2000kVA	N/A
416/240	60	3	0.8	2776	1600kW/2000kVA	N/A

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.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-1800GF2-G43****440V | 1800rpm | 60Hz**

## ENGINE SPECIFICATION

Manufacturer / Model	MTU 12V4000G43S
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Air intake system	Turbocharged, water/air intercooling
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Fuel system	Electronic Fuel Injection System
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Cylinder arrangement	12 in V
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Displacement	57.2L
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Bore and stroke	170×210 mm
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Compression ratio	16.4
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Rated speed	1800rpm
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Max. Standby power at rated speed	1736kW
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Governor type	ADEC
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## Exhaust System

Exhaust gas flow	324 m <sup>3</sup> /min
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Exhaust temperature	430°C
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Max back pressure	8.5kPa
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## Air Intake System

Max intake restriction	5kPa
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Combustion air flow	138 m <sup>3</sup> /min
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Air flow required for radiator	1980 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-1800GF2-G43**

**440V | 1800rpm | 60Hz**

**Fuel System**

Fuel consumption @ 100% (Standby Power) Load	201g/kWh	404L/h
Fuel consumption @ 75% (Standby Power) Load	199g/kWh	302L/h
Fuel consumption @ 50% (Standby Power) Load	212g/kWh	219L/h

**Oil System**

Total oil capacity	260L
Oil consumption	0.3% of Fuel Consumption
Oil sump capacity	160-200L

**Cooling System**

Coolant capacity	435L
Max water temperature	102°C

**MODEL: HC-1800GF2-G43****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	1935kVA
Alternator Efficiency	96.1%

**MODEL: HC-1800GF2-G43****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	Fuel-Water separator
Special coolant		

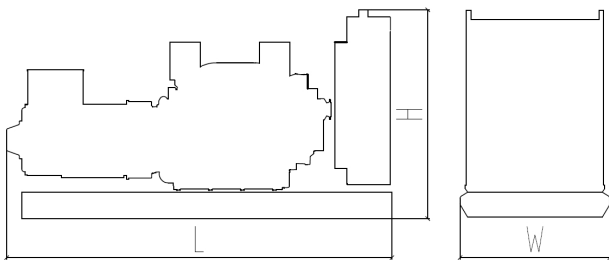
**MODEL: HC-1800GF2-G43**

**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		

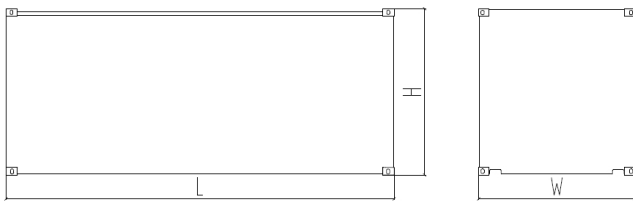
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 6100×2100×2600 mm

Weight: 13000kg



**Soundproof Type (standard 40'ft HQ container)**

Overall Dimensions: 12192×2438×2896 mm

Weight: 23000kg

*Specifications are subject to change without notice.*