

MODEL: HC-836GF2

440V | 1800rpm | 60Hz



ESP Standby Power	880 kVA	PRP Prime Power	800 kVA
ENGINE	VOLVO	ALTERNATOR	STAMFORD
	TWD1744GE		S5L1D-H4

GENERAL FEATURES

Engine: VOLVO TWD1744GE

Alternator: single bearing, IP23, insulation class H

55°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

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GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	1059	704/880	640/800
460/266	60	3	0.8	1105	704/880	640/800
440/254	60	3	0.8	1155	704/880	640/800
416/240	60	3	0.8	1221	704/880	640/800

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO8528) ; 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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Manufacturer / Model	VOLVO TWD1744GE
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Air intake system	Turbocharged, Water/Air inter cooling
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Fuel system	Elec. Injection, Elec. Fuel System
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Cylinder arrangement	6 in line
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Displacement	17.26L
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Bore and stroke	149x165
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Compression ratio	16.5
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Rated speed	1800rpm
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Max. Standby power at rated speed	750kW
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Governor type	ECM4
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Exhaust System

Exhaust gas flow	N/A
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Exhaust temperature	N/A
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	N/A
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Combustion air flow	56.3 m ³ /min
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Air flow required for radiator	792 m ³ /min
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Comprehensive Solutions For

POWER GENERATION

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Fuel consumption @ 100% (Prime Power) Load	196 g/kWh	164 L/h
Fuel consumption @ 75% (Prime Power) Load	197 g/kWh	125 L/h
Fuel consumption @ 50% (Prime Power) Load	202 g/kWh	88 L/h

Oil System

Total oil capacity	52L
Oil consumption	N/A
Oil sump capacity	32~47L

Cooling System

Coolant capacity	113L
Max water temperature	107°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	844kVA
Alternator Efficiency	94.7%

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	Special coolant

MCCB

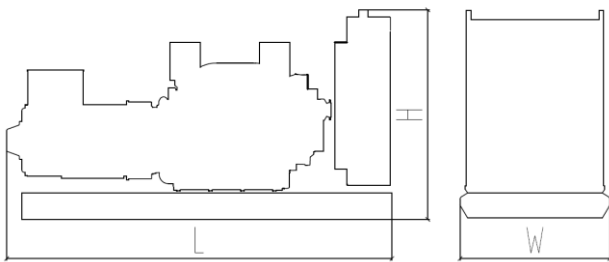
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OPTIONS

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

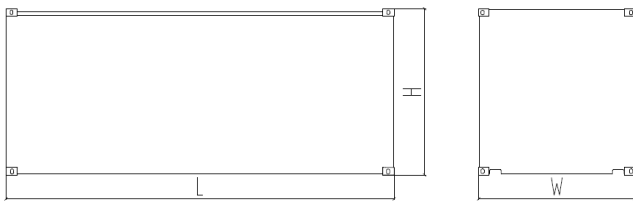
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 3600x1400x2100 mm

Weight: 4200 kg



Soundproof Type

Overall Dimensions: 5030x1660x2550 mm

Weight: 6200 kg

Specifications are subject to change without notice.