

MODEL: HC-700GF2

440V | 1800rpm | 60Hz



ESP Standby Power	750kVA	PRP Prime Power	688kVA
ENGINE	Volvo	ALTERNATOR	STAMFORD
	TWD1643GE		HCI544E1

GENERAL FEATURES

Engine: Volvo TWD1643GE

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	902	600kW/750kVA	550kW/688kVA
460/266	60	3	0.8	941	600kW/750kVA	550kW/688kVA
440/254	60	3	0.8	984	600kW/750kVA	550kW/688kVA
416/240	60	3	0.8	1041	600kW/750kVA	550kW/688kVA

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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Manufacturer / Model	Volvo TWD1643GE
Air intake system	Turbocharged, Water/Air inter cooling
Fuel system	Elec. Injection, Elec. Fuel System
Cylinder arrangement	6 in line
Displacement	16.12L
Bore and stroke	144×165 mm
Compression ratio	16.5
Rated speed	1800rpm
Max. Standby power at rated speed	644kW
Governor type	ECU EMS2

Exhaust System

Exhaust gas flow	130 m ³ /min
Exhaust temperature	461°C
Max back pressure	10kPa

Air Intake System

Max intake restriction	5kPa
Combustion air flow	54.85 m ³ /min
Air flow required for radiator	816 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	202g/kWh	144.9L/h
Fuel consumption @ 75% (Prime Power) Load	197g/kWh	107.3L/h
Fuel consumption @ 50% (Prime Power) Load	201g/kWh	75.4L/h

Oil System

Total oil capacity	48L
Oil consumption	0.10L/h
Oil sump capacity	32-42L

Cooling System

Coolant capacity	166L
Max water temperature	103°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	713kVA
Alternator Efficiency	94.9%

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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

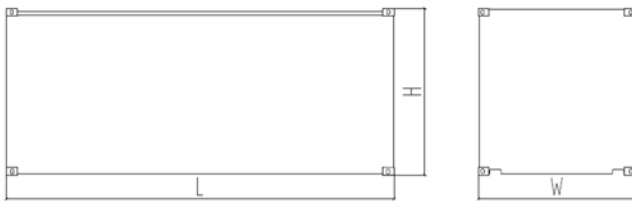
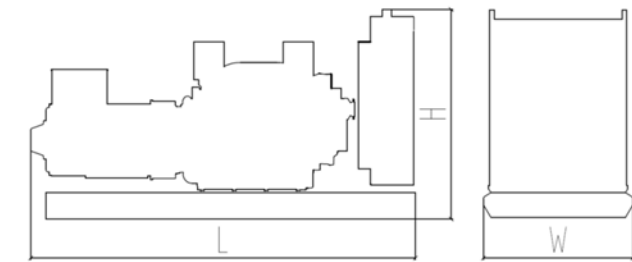
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OPTIONS

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: 3500×1400×2050 mm

Weight: 4100 kg

Soundproof Type

Overall Dimensions: 5030×1660×2550 mm

Weight: 6100 kg

Specifications are subject to change without notice.