

MODEL: HC-770GF2

440V | 1800rpm | 60Hz



ESP Standby Power	781kVA	PRP Prime Power	713kVA
ENGINE	Volvo	ALTERNATOR	STAMFORD
	TWD1673GE		S5L1D-E41

GENERAL FEATURES

Engine: Volvo TWD1673GE	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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Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	939	625/781	570/713
460/266	60	3	0.8	980	625/781	570/713
440/254	60	3	0.8	1025	625/781	570/713
416/240	60	3	0.8	1084	625/781	570/713

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 TWD1673GE
Air intake system	Turbo, Water/Air Cooling
Fuel system	UNIT INJECTOR HYBRID
Cylinder arrangement	6 in line
Displacement	16.12L
Bore and stroke	144*165 (mm)
Compression ratio	16.8
Rated speed	1800rpm
Max. Standby power at rated speed	685KW/932HP (without fan)
Governor type	EMS2.3

Exhaust System

Exhaust gas flow	137.8m ³ /min
Exhaust temperature	484°C
Max back pressure	10kPa

Air Intake System

Max intake restriction	3kPa
Combustion air flow	51.1m ³ /min
Air flow required for radiator	1200m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	195 g/KWh	145L/h
Fuel consumption @ 75% (Prime Power) Load	195 g/KWh	110L/h
Fuel consumption @ 50% (Prime Power) Load	202 g/KWh	78L/h

Oil System

Total oil capacity	48L
Oil consumption	0.11L/h
Oil sump capacity	32-42L

Cooling System

Coolant capacity	166L
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	713kVA
Alternator Efficiency	94.9%

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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

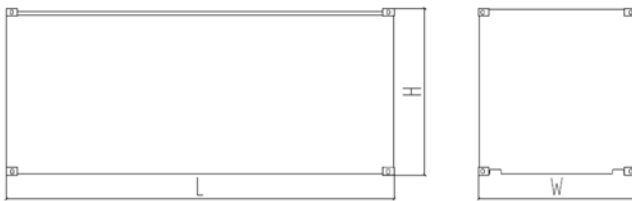
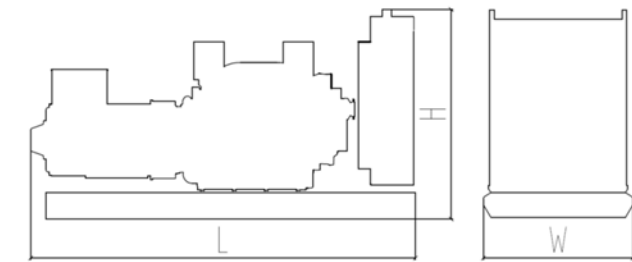
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OPTIONS

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: 3500×1530×2100 mm

Weight: 4100 kg

Soundproof Type

Overall Dimensions: 5030×1650×2550 mm

Weight: 6100 kg

Specifications are subject to change without notice.