

MODEL: HC-275GF2-8L

440V | 1800rpm | 60Hz



ESP Standby Power	286kVA	PRP Prime Power	260kVA
ENGINE	Volvo	ALTERNATOR	STAMFORD
	TAD841GE		UCDI274J1

GENERAL FEATURES

Engine: Volvo TAD841GE

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	344	229kW/286kVA	208kW/260kVA
460/266	60	3	0.8	359	229kW/286kVA	208kW/260kVA
440/254	60	3	0.8	375	229kW/286kVA	208kW/260kVA
416/240	60	3	0.8	397	229kW/286kVA	208kW/260kVA

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 TAD841GE
Air intake system	Turbocharged, Air/Air inter cooling
Fuel system	Elec. Injection, Elec. Fuel System
Cylinder arrangement	6 in line
Displacement	7.7L
Bore and stroke	110×135 mm
Compression ratio	17.5
Rated speed	1800rpm
Max. Standby power at rated speed	248kW
Governor type	ECU EMS2

Exhaust System

Exhaust gas flow	48 m ³ /min
Exhaust temperature	438°C
Max back pressure	10kPa

Air Intake System

Max intake restriction	5kPa
Combustion air flow	20.5 m ³ /min
Air flow required for radiator	360 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	204g/kWh	59L/h
Fuel consumption @ 75% (Prime Power) Load	207g/kWh	46L/h
Fuel consumption @ 50% (Prime Power) Load	220g/kWh	34L/h

Oil System

Total oil capacity	27L
Oil consumption	0.02L/h
Oil sump capacity	16-25L

Cooling System

Coolant capacity	41L
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	281kVA
Alternator Efficiency	92.8%

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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
Base fuel tank		

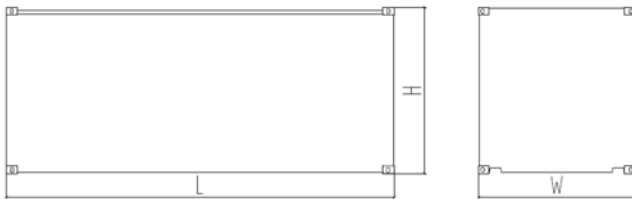
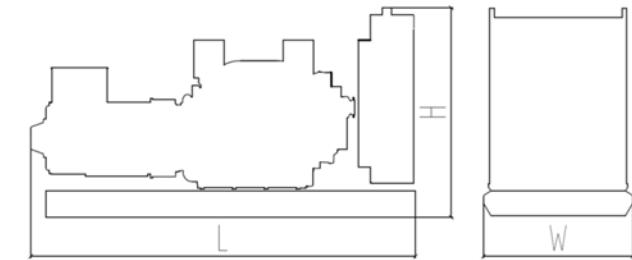
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OPTIONS

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: 2770×1050×1610 mm

Weight: 2100 kg

Soundproof Type

Overall Dimensions: 3590×1310×2050 mm

Weight: 3000 kg

Specifications are subject to change without notice.