

GORAN GENERATOR

GGV167 GENSET

Generating Set Powered By

**VOLVO
PENTA**

STAMFORD



Image for illustration purposes only

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz /400V I21KWe / 152KVA	I33KWe / 167KVA	
1800rpm, 60 Hz /440V I29KWe / 161 KVA	I42KWe / 177KVA	

Genset Specifications

Engine Make & Model Volvo Penta TAD731GE

Origin GERMANY

Alternator Type Stamford UCI274F

Control Panel Deap Sea - 6110

Circuit Breaker Type 3 Pole MCCB

Tropical Cooling System °55C

Mechanical Governor

Electrical Stop Solenoid, Energized to Run

Emission Controlled

Fuel System	%50	%75	%100
1500rpm, 50 Hz	18.66	27	35.83
1800rpm, 60Hz	19.25	27.5	36.17

*Prime Power (l/hr)

International Standards

Engine confirm to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG32-I, IEC34 CSA C-22.2100, AS 1359, BS 1 6861, B En -6-610002:2001



RATING GUIDELINES

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for governing purpose is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating. **1 hp = 1 kW x 1.36**

Engine Technical Data

No. of Cylinders / Alignment	6 / In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Mechanical
Bore, mm	108
Stroke, mm	130
Displacement, l	7.15
Compression Ratio	18:1
Starting	12V Electric
Alternators, Amps	12V/55A

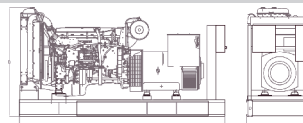
Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	SX460
Protection	IP23
Temperature Rise, °C	125
Regulation	%1.0±
No. of Phases	3
No. of Poles	4

Dimensions & Weights

Length(m) Width(m) Height(m) Weight(kg) Tank Capacity(L)

2.75	0.90	1.52	1510	125
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Performances 1500rpm 1800rpm

Alternator Efficiency %92.3 %92.4

Engine Power

Prime Power, KWm(hp) 182)134) 188)139)
Standby Power, KWm(hp) 201)148) 209)153)

Alternator

Prime Power, KWe 128 152

Lubrication System 1500rpm 1800rpm

Oil Consumption (l/hr)

Prime Power 0.10 0.10

Oil Sump Capacity, l

17

Oil System Capacity Include Filters, l

20

Cooling System 1500rpm 1800rpm

Heat Radiation from Engine and Alternator, Power KW (Standby)

15

16

Heat Rejection to Coolant and Lube Oil at Standby Power, KW

68

74

Radiator Cooling Air Flow, m³/s

2.9

3.6

Coolant Capacity, l

23.8

Intake & Exhaust System 1500rpm 1800rpm

Air Flow Combustion at Standby Power, m³/min(cfm)

376)10.65)

471)13.33)

Heat Rejection Exhaust at Standby Power, KW

131

135

Exhaust Gas Temperature at Standby °C

540

480

Max Allowable Back Pres- sure in Exhaust Line, Kpa

5.0

7.0

Exhaust Gas Flow at Standby Power, m³/min(cfm)

1067)30.2)

1208)34.2)

Accessories

Oil Drain Pump

Standard Silencer

Stainless Steel Flexible

Anti-Vibration Pads

Genuine Oil (Volvo Penta)

Fuel Tank Base Frame for 8hrs

Volvo Penta 'Ready Mix'

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
- Oil pressure, water temperature, low oil level, high oil temperature
- DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
- Low coolant level - Configurable inputs&outputs
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

• Engine

- Coolant heater
- Oversize batteries
- Extra fuel pre-filter water separator
- Battery disconnect switch

• Alternator

- Permanent magnet generator (PMG)
- Upgrade to 3 phase sensing AVR
- Qadrature droop kit
- Anti-condensation heater
- Air inlet filters

• General

- Upgrade to modular controller for paralleling
- Upgrade to 4 pole circuit breaker
- Battery charger
- Automatic transfer switch
- Fuel level switch High / Low for alarm and control
- Fuel transfer pump Automatic / Manual
- Residential grade silencer
- Weather protective and acoustic enclosure.

Spare Parts Kit (Optional)

Genuine - Volvo Penta

Oil filter, full flow	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)

General Information

Documentation

Engine instruction book-English
Alternator manual- English
Wiring diagram

Warranty

One year or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.

GORAN

GENERATOR

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