

# EXPERT GU450VO

60Hz@1800RPM 440/254V 3PH

**GENMAC**  
POWER PRODUCTS

**VOLVO PENTA STAMFORD**



Picture for illustration purposes only

## General features

Open generator with following specifications:

### Frame:

- Heavy duty fabricated welded base plate with high quality steel UNI S235 JR
- Heavy duty, bell type, rubber anti-vibration mountings
- Lifting feet forklift compatible
- Dedicated area to make easier the electrical connection to the load
- Fuel tank with drain plug
- Easy access to fuel refilling
- Oil draining mechanical pump

### Muffler:

- Industrial type
- With high heat paint coating

### Control Panel:

- Self-standing control panel tower made with metal structure
- Control panel is divided in two independent and insulated boxes separating Controls (Controller and numbered terminal board) from Power connection (circuit breaker and cable inlet)
- External dedicated area to make easier the electrical connection to the load
- Power connection between circuit breaker and alternator made with high resistance cables and using cable glands for waterproof connections

All units and components are prototype tested, factory build and production tested. A specific control procedure during the several stages of production ensures long life and reliability.

## Overall performance

### GU450VO

PRP Continuous power kVA	413
PRP Continuous power kW	330
LTP Stand-by power kVA	454
LTP stand-by power kW	363
Power factor cos $\phi$	0.8
Voltage VAC	440/254
Frequency Hz	60
Ampere PRP/LTP	542 / 596
Speed RPM	1800

## Dimensions and noise level

Length mm	3000
Width mm	1300
Height mm	2020
Net Weight kg	3160
Gross Weight kg	-
Sound pressure at 7 mt dBA	-

## Data reference

Standard reference conditions temperature 25°C, altitude 1-1000m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to specific weight 0.850 gr/lt. Power performance data as quoted can be obtained after the initial running-in period of the engine, during which one has to follow the instructions of the engine manufacturer as stated in the use and maintenance manual of the specific engine. The tolerance shown by the engine manufacturer is +/- 5%. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance. P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer. L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted.\*For reasons of transport and/or storage, liquids (oil and antifreeze) and batteries might not be included in the delivery.

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## Engine general data

Engine brand	Volvo-Penta
Model	TAD1342GE
PRP Power kW	345.00
LTP Power kW	377.00
Fuel	Diesel
Nr. cylinders	6
Air intake	Turbo intercooler
Cooling	Water
Cubic capacity l.	12.78
Speed regulation	Electronic
Performance Class - steady state regulator accuracy +/- %	- - -
Load Step G1 - KWe	-
Load Step G2 - KWe	-
Load Step G3 - KWe	-
Voltage VDC	24
Emissions	-

## Alternator general data

Alternator brand	Stamford
Model	S4L1D-E
Type of excitation	Self-excited
Type of regulation	AVR
Regulator precision +/- %	1.00

## Structure data

Type of structure	EXPERT
Tank capacity l.	900
Retention basin	not
Exhaust diameter mm	-

## Control panel features

### QTVA-7320

Self-standing tower with metal box  
Circuit breaker  
AMF controller DSE7320  
- Voltmeter, Frequncymeter, Ammeter  
- Generator power (kW, kV Ar, kV A & pf) monitoring  
- Hour meter  
- Fuel level meter  
- Overload (kW & kV Ar) protection  
- Low oil pressure protection  
- High coolant temperature protection  
- Low fuel level protection  
- Battery charger alternator fault  
- Rpm protection  
Emergency stop button  
Audible alarm  
Terminal board for ATS connection  
RS232 & RS485 Port  
Can Bus reading Port (if standard on the engine)  
Battery charger  
On/off switch

## Fuel consumption

Consumption 25% l./h	24.60
Consumption 50% l./h	43.00
Consumption 75% l./h	62.30
Consumption 100% l./h	83.50
Autonomy at 75% of load h.	≈ 14 h

## Engine liquids and equipment

Type of lubricant	Oil SAE 15W40
Lubrication capacity l.*	36.00
Type of coolant	Antifreeze liquid VCS (Yellow)
Coolant capacity l.*	44.00
Air intake filter	Paper cartridge
Battery capacity Ah	120
Number of batteries*	2

## Fuel system and energy balance

AC pump suction head kPa	-
Combustion air flow volume LTP m3/min	28.70
Cooling air capacity LTP m3/min	492.00
Exhaust gas flow-density LTP m3/min	69.50
Exhaust gas temperature LTP °C	481.00
Brake mean effective pressure kPa	10.00
Energy to exhaust LTP kWt	287.00
Energy to coolant LTP kWt	172.00
Energy to radiation LTP kWt	-



Dealer