

• Model: V200D5

Powered by VOLVO





Generator Specification

Service I	PRP(1)	ESP(2)
Power (kVA)	180	200
Power (kW)	144	160
Rated speed (r.p.m)	150	
Standard voltage (V)	400/2	30V
Rated at power factor(cos phi)	0.8	



AGG Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

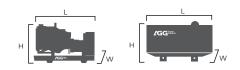
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers	ES	P	PR	P	Standby
Voltage (V)	KVA	KW	KVA	КW	Amps
415/240	200	160	180	144	278.2
400/230	200	160	180	144	288.7
380/220	200	160	180	144	303.9

Performance Data			
Model		V200D5	
Er	igine brand	Volvo	
Er	igine model	TAD732GE	
Spee	d control type	Electronic	
	Phase	3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	183	
Fuel Consumption (g/kwh)	100% prime power	182	
	75% prime power	183	
	50% prime power	188	

Standard reference Conditions

Note: Standard reference condition 25 $^\circ$ (77 $^{\rm F}$) air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 , Class A2



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	2650mm	4170mm	
Width (W)	1125 mm	1150mm	
Height (H)	1755mm	2110mm	
Net Weight	1650KG	2200KG	
Fuel Tank (L)	350 L	REQ	



Engine Specification: TAD732GE

General data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Displacement	7 L
Bore	108 mm
Stroke	130 mm
Compression ratio	18:1
Dry weight-engine only	710 kg
Dry weight-include cooling system	785 kg
Wet weight-engine only	751 kg
Wet weight-Genpac	1821 kg

Inlet / Exhaust Data	
Max. intake restriction	3.5 kPA
Heat rejection to exhaust	
- standby power	144 kW
- prime power	127 kW
Exhaust gas temp after turbine at	
- standby power	542 °C
- prime power	529 °C
Max. back pressure in exhaust line	3 kPA
Exhaust gas flow at:	
- standby power	35.1 m 3 /min
- prime power	31.9 m 3 /min

Fuel system	
Total fuel flow	360 L/H
Feed pump max suction head	1.5m
Feed pump pressure	500 kPA
Fuel filter micron size	0.005 mm
Prefilter/Water separator micron	size 0.063 mm
Injection timing std.	2. 5 ° B. T. D. C

Lubrication system	
Oil consumption	
- standby power	0.08 L/H
- prime power	0.08 L/H
Oil system capacity-include filters	34 L
Oil sump capacity-max.	31 L
Oil sump capacity- min.	24 L
Oil change intervals	500 H
Oil pressure at rated speed	480-520 kPA
Lubrication oil temp in oil sump	110°C
Oil filter micron size	0.0012 mm

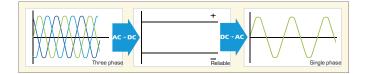
Electrical system	
Voltage	24 V
Alternator make/output	55 Amp
Starter motor	5 kW

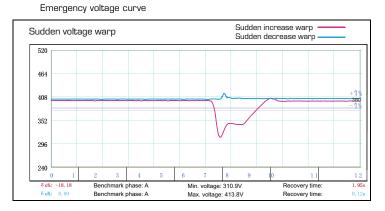
Cooling system		
Heat rejection radiation from engine at		
- standby power	18 kW	
- prime power	17 kW	
Heat engine rejection to coolant at		
- standby power	85 kW	
- prime power	77 kW	
Fan power consumption	4.2 kW	
Fan drive ratio	1:1.0	
Coolant capacity-engine	9.8 L	
Coolant capacity-std radiator	27.3 L	
Coolant pump(drive/ratio)	1:1.73	
Coolant flow with standard system	3 L/S	
indercooler core thickness	50 mm	
Max. out circuit restriction	25 kPA	
Thermostat-start to open	87 ℃	
Thermostat-fully open	25 °C	
Max. static pressure head	100 kPA	
Minimum coolant flow	113 ℃	
Standard pressure cap setting	90 kPA	
Max. top tank temp	105 ℃	



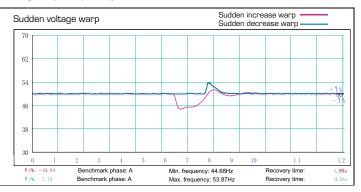
Alternator Specification

Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standar	d) Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping	Flexible disc	





Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
Water Jacket Pre-heaterFuel heater	 Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	 Tools with the machine Extended range fuel tank Bunded fuel tank 	 Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
 Rental type Canopy Trailer 	 Oil Pre-heater Oil temp sensor 	• Front heat protection	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay



Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/60HZ)
- Generator measurements (50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over-/under voltage
 - -Over-/under frequency
 - -Current/voltage asymmetry
- -Over current/overload
- 3 phase AMF function
- Over-/under frequency
- Over-/under voltage
- Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log



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Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 $^\circ\!C$ to + 70 $^\circ\!C$
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, ± 1.6 mm
 - 5-100Hz, a=4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs

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