

• Model: V143D5

Powered by VOLVO





Service	PRP (1)	ESP(2)
Power (kVA)	130	143
Power (kW)	104	114
Rated speed (r.p.m)	15	00
Standard voltage (V)	400/	230V
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	Р	PR	2	Standby
Voltage (V)	KVA	ĸw	KVA	ĸw	Amps
415/240	143	114	130	104	198.9
400/230	143	114	130	104	206.4
380/220	143	114	130	104	217.3



Performan	ce Data		
	Model	V143D5	
Er	igine brand	Volvo	
En	gine model	TAD532GE	
Spee	d control type	Electronic	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	216	
Fuel Consumption (L/H)	100% prime power	214	
	75% prime power	210	
	50% prime power	213	

Standard reference Conditions

Note: Standard reference condition 25°C[77°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)	2177mm	3050mm	
Width (W)	990mm	1100mm	
Height (H)	1550mm	1832mm	
Net Weight	1335 KG	REQ	
Fuel Tank (L)	200 L	REQ	

Engine Specification: TAD532GE

General data	
No. of cylinders	4
Cylinder arrangement	In-line
СусІе	4 stroke
Displacement	5 L
Bore	108 mm
Stroke	130 mm
Compression ratio	18:1
Dry weight-engine only	NA
Dry weight-include cooling system	575 kg
Wet weight-engine only	NA
Wet weight-Genpac	606 kg

Inlet / Exhaust Data	
Max. intake restriction	3.5 kPA
Heat rejection to exhaust	
- standby power	104kW
- prime power	90 kW
Exhaust gas temp after turbine at	
- standby power	532 ℃
- prime power	507 ℃
Max. back pressure in exhaust line	3 kPA
Exhaust gas flow at:	
- standby power	23.2 m 3 /min
- prime power	21.2 m 3 /min

Fuel system	
Total fuel flow	360 L/H
Fuel supply line max. restriction	/
Fuel supply line max pressure	/
System return flow	/
Fuel return line max restriction	500-550 kPA
Max. allowable inlet fuel temp	/

Lubrication system	
Oil consumption	
- standby power	0.08 L/H
- prime power	/
Oil system capacity-include filters	13 L
Oil sump capacity-max.	11 L
Oil sump capacity- min.	9 L
Oil change intervals	500 H
Oil pressure at rated speed	450-480 kPA
Lubrication oil temp in oil sump	110 ℃
Oil filter micron size	0.04mm

Electrical system	
Voltage	12 V
Alternator make/output	55 Amp
Starter motor	3.1 kW

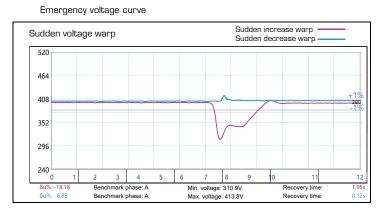
Cooling system Heat rejection radiation from engine at 13 kW - standby power 12 kW - prime power Heat engine rejection to coolant at 63 kW - standby power 56 kW - prime power 3.8-5 kW Fan power consumption 1.73:1 Fan drive ratio 7.2 L Coolant capacity-engine Coolant capacity-std radiator 13 L Coolant pump(drive/ratio) 1.73:1 Coolant flow with low temp system / 163 L/S Minimum coolant flow Max. out circuit restriction 25 kPA 83 ℃ Thermostat-start to open Thermostat-fully open 95 ℃ Max. static pressure head 100 kPA Min. static pressure head / Standard pressure cap setting 60 kPA Max. top tank temp 105 ℃



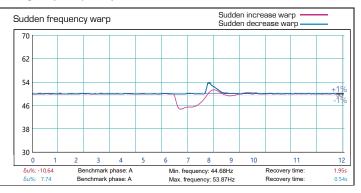
Alternator Specification

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-heater Fuel 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 CanopyTrailer	Oil Pre-heaterOil temp sensor	 Front heat protection 	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay



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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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

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 °C to + 70 °C
- Storage temp: -30 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
 - Vibration : 5-25Hz, ±1.6mm 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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