

• Model: V275E5

Powered by VOLVO



Generator Specification

Service		ESP(2)
Power (kVA)	250	275
Power (kW)	200	220
Rated speed (r.p.m)	150	0
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.

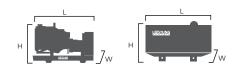
Powers	ES	Р	PR	5	Standby
Voltage (V)	KVA	KW	KVA	ĸw	Amps
415/240	200	160	180	144	278.2
400/230	200	160	180	144	288.7
380/220	200	160	180	144	303.9



Performance Data			
Model		V275E5	
Er	igine brand	Volvo	
En	gine model	TAD734GE	
Spee	d control type	ECM	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	205	
Fuel Consumption (L/H)	100% prime power	204	
	75% prime power	217	
	50% prime power	233	

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) 2650mm 4000mm Width (W) 1125mm 1570mm Height (H) 1755mm 2560mm Net Weight 1854 KG 3126 KG Fuel Tank (L) 350 L 540 L

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	General data		
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No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Displacement	7 L
Bore	108 mm
Stroke	130 mm
Compression ratio	17:1
Dry weight-engine only	764 kg
Dry weight-include cooling system	954 kg
Wet weight-engine only	788 kg
Wet weight-Genpac	1021 kg

Inlet / Exhaust Data	
Max. intake restriction	3 kPA
Heat rejection to exhaust	
- standby power	177 kW
- prime power	160 kW
Exhaust gas temp after turbine at	
- standby power	550 ℃
- prime power	495 ℃
Max. back pressure in exhaust line	10 kPA
Exhaust gas flow at:	
- standby power	33.4 m 3 /min
- prime power	33 m 3 / min

Cooling system	
Heat rejection radiation from engine	at
- standby power	26 kW
- prime power	24 kW
Heat engine rejection to coolant at	
- standby power	128 kW
- prime power	117 kW
Fan power consumption	11.6 kW
Fan drive ratio	1:1
Coolant capacity-engine	8 L
Coolant capacity-std radiator	24 L
Coolant pump(drive/ratio)	1.85:1
Coolant flow with standard system	4.08 L/S
Minimum coolant flow	3.6 L/S
Max. external coolant system restriction	33 kPA
Thermostat-start to open	83 °C
Thermostat-fully open	103 ℃
Max. static pressure head	85 kPA
Min. static pressure head	75 kPA
Standard pressure cap setting	75 kPA
Max. top tank temp	103 ℃

Fuel system	
System supply flow	164 L/H
Fuel supply line max. restriction	35 kPA
Fuel supply line max pressure	35 kPA
Fuel filter micron size	102.6mm
Fuel return line max restriction	50 kPA
Max. allowable inlet fuel temp	70 ℃

Lubrication system	
Oil consumption	
- standby power	0.1 L/H
- prime power	/
Oil system capacity-include filters	29 L
Oil sump capacity-max.	24 L
Oil sump capacity- min.	20 L
Oil change intervals	500 H
Oil pressure at rated speed	420-450 kPA
Lubrication oil temp in oil sump	130 ℃
Oil pressure shut down switch settin	g 0.04mm

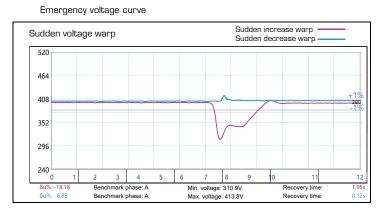
Electrical system	
Voltage	24 V
Alternator make/output	100 Amp
Starter motor	5 kW



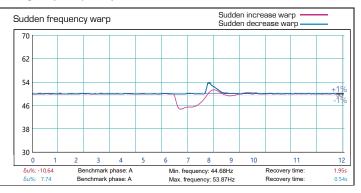
Alternator Specification

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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info@leistung-energie.com | www.leistung-energie.com

Unit 1804, South Bank Tower, 55 Upper Ground, London, United Kingdom SE1 9EY

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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