

• Model: V625E5

Powered by VOLVO



Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	575	625
Power (kW)	460	500
Rated speed (r.p.m)	150)0
Standard voltage (V)	400/2	230V
Rated at power factor(cos phi)	0.8	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	PRI	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	625	500	575	460	869.5
400/230	625	500	575	460	902.1
380/220	625	500	575	460	946.6



Performance Data			
Model		V625E5	
Er	igine brand	Volvo	
En	igine model	TAD1642GE	
Spee	d control type	ECM	
	Phase	3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engin	e speed (RPM)	1500	
	100% standby power	200	
Fuel Consumption (L/H)	100% prime power	198	
	75% prime power	195	
	50% prime power	195	

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)	4712mm	4712mm	
Width (W)	1600mm	1600mm	
Height (H)	2465mm	2465mm	
Net Weight	5417 KG	REQ	
Fuel Tank (L)	700 L	REQ	

Engine Specification: TAD1642GE

General data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Displacement	16 L
Bore	144 mm
Stroke	165 mm
Compression ratio	16.5:1
Dry weight-engine only	NA
Dry weight-include cooling system	NA
Wet weight-engine only	1550 kg
Wet weight-Genpac	2020 kg

Inlet / Exhaust Data	
Max. intake restriction	5 kPA
Heat rejection to exhaust	
- standby power	427 kW
- prime power	379 kW
Exhaust gas temp after turbine at	
- standby power	482 ℃
- prime power	456 ℃
Max. back pressure in exhaust line	10 kPA
Exhaust gas flow at:	
- standby power	102.5 m 3 /min
- prime power	94.4 m 3 /min

Fuel system	
System supply flow	180 L/H
Fuel supply line max. restriction	30 kPA
Fuel supply line max pressure	O kPA
System return flow	25 L/H
Fuel return line max restriction	20 kPA
Max. allowable inlet fuel temp	60 °C

Lubrication system	
Oil consumption	
- standby power	0.11 L/H
- prime power	0.10 L/H
Oil system capacity-include filters	48 L
Oil sump capacity-max.	42 L
Oil sump capacity- min.	32 L
Oil change intervals	600 H
Oil pressure at rated speed	370-650 kPA
Lubrication oil temp in oil sump	130 ℃
Oil filter micro size	40µ

Electrical system	
Voltage	24 V
Alternator make/output	80 Amp
Starter motor	7 kW

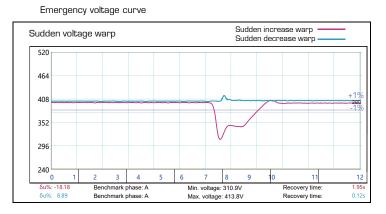
Cooling system			
Heat rejection radiation from engin	Heat rejection radiation from engine at		
- standby power	20 kW		
- prime power	18 kW		
Heat engine rejection to coolant at			
- standby power	184 kW		
- prime power	170 kW		
Fan power consumption	11 kW		
Fan drive ratio	1.04:1		
Coolant capacity-engine	33 L		
Coolant capacity-std radiator	60 L		
Coolant pump(drive/ratio)	1.85:1		
Coolant flow with standard system	6.4 L/S		
Minimum coolant flow	6.4 L/S		
Max. out circuit restriction	40 kPA		
Thermostat-start to open	86 ℃		
Thermostat-fully open	96 °C		
Max. static pressure head	100 kPA		
Min. static pressure head	70 kPA		
Standard pressure cap setting	75 kPA		
Max. top tank temp	103 ℃		



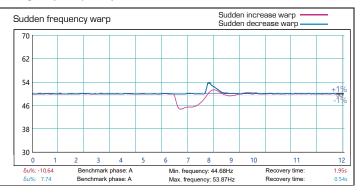
Alternator Specification

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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