



• Model: V715E5

Powered by VOLVO





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	650	715
Power (kW)	520	572
Rated speed (r.p.m)	150	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):

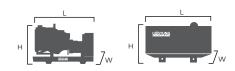
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PRI	,	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	715	572	650	520	994.7
400/230	715	572	650	520	1032.0
380/220	715	572	650	520	1086.4

Performan	ce Data		
	Model	V715E5	
Engine brand		Volvo	
Engine model		TWD1644GE	
Speed control type		ECM	
Phase		3	
Cor	ntrol system	Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	194	
Fuel	100% prime power	193	
Consumption	75% prime power	195	
(L/H)	50% prime power	195	

Standard reference Conditions

Note: Standard reference condition $25^{\circ}C[77^{\circ}F]$ 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)	3055mm	4912mm	
Width (W)	1380mm	1600mm	
Height (H)	2220mm	2465mm	
Net Weight	4325 KG	-	
Fuel Tank (L)	1000 L	-	



■ Engine Specification: TAD1644GE

General data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Displacement	16 L
Bore	144 mm
Stroke	165 mm
Compression ratio	16.8:1
Dry weight-engine only	NA
Dry weight-include cooling system	NA
Wet weight-engine only	1810 kg
Wet weight-Genpac	2767 kg

Inlet / Exhaust Data	
Max. intake restriction	-3 kPA
Heat rejection to exhaust	
- standby power	432 kW
- prime power	406 kW
Exhaust gas temp after turbine at	
- standby power	480 ℃
- prime power	485 ℃
Max. back pressure in exhaust line	10 kPA
Exhaust gas flow at:	
- standby power	100 m 3 /min
- prime power	93.5 m 3 /min

Heat rejection radiation from engine at - standby power 24 kW - prime power 21 kW Heat engine rejection to coolant at - standby power 228 kW - prime power 211 kW Fan power consumption 21 kW	
- prime power 21 kW Heat engine rejection to coolant at - standby power 228 kW - prime power 211 kW	
Heat engine rejection to coolant at - standby power 228 kW - prime power 211 kW	
- standby power 228 kW - prime power 211 kW	
- prime power 211 kW	
1 1	
Fan nower consumption 91 kW	
ran power consumption 21 KW	
Fan drive ratio 1.04:1	
Coolant capacity-engine 25 L	
Coolant capacity-std radiator 50 L	
Coolant pump(drive/ratio) 1.85:1	
Coolant flow with standard system - L/S	
Minimum coolant flow 4.8 L/S	
Max. out circuit restriction /	
Thermostat-start to open 82 ℃	
Thermostat-fully open 92 ℃	
Max. static pressure head 100 kPA	
Min. static pressure head 70 kPA	
Standard pressure cap setting 75 kPA	
Max. top tank temp 107 ℃	

Fuel system	
System supply flow	170 L/H
Fuel supply line max. restriction	10 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 ℃

Lubrication system	
Oil consumption	
- standby power	O.11L/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	500 H
Oil pressure at rated speed	300-500 kPA
Engine angularity limits	30°

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



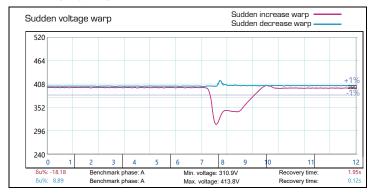


Alternator Specification

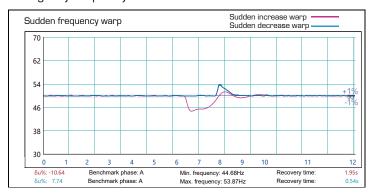
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating Va	cuum impregnation	
Voltage regulator	A.V.R	
Couping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



Emergency voltage curve



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





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

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 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ±1.6mm
 - 5-100Hz, a=4q
- 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



United Kingdom | Australia | China | Chile | Germany Hongkong | Indonesia | Malaysia | Russia | Singapore South Africa | Thailand | Vietnam

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.

Distributed	h١
DISH IDULEU	υV