

• Model: V800D6

Powered by VOLVO





Generator Specification

Service I	P RP (1)	ESP(2)
Power (kVA)	727	800
Power (kW)	582	640
Rated speed (r.p.m)	1800)
Standard voltage (V)	400/23	BOV
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):

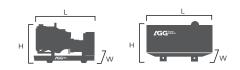
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PR	P	Standby
Voltage (V)	KVA	KW	KVA	ĸw	Amps
415/240	800	640	727	582	1112.9
400/230	800	640	727	582	1154.7
380/220	800	640	727	582	1215.5

Performance Data			
Model		V800D6	
Er	igine brand	Volvo	
Er	igine model	TAD1645GE	
Spee	d control type	ECM	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		60HZ	
Engine speed (RPM)		1800	
	100% standby power	191	
Fuel Consumption (g/kwh)	100% prime power	193	
	75% prime power	194	
	50% prime power	207	

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)	3055mm	4912mm	
Width (W)	1380 mm	1600mm	
Height (H)	2220mm	2465mm	
Net Weight	4325KG	-	
Fuel Tank (L)	1000 L	-	



Engine Specification: TAD1645GE

General data	
No. of cylinders	6
Cylinder arrangement	In-line
СусІе	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	473 kW
- prime power	415 kW
Exhaust gas temp after turbine at	
- standby power	501 °C
- prime power	470 °C
Max. back pressure in exhaust line	9 kPA
Exhaust gas flow at:	
- standby power	106 m 3 /min
- prime power	98 m 3 /min

		Tuera
Cooling system		Syste
Heat rejection radiation from engin	e at	Fuel s
- standby power	26 kW	Fuel s
- prime power	23 kW	Syste
Heat engine rejection to coolant at		Fuelr
- standby power	259 kW	Max.
- prime power	239 kW	
Fan power consumption	21 kW	Lubri
Fan drive ratio	1.04:1	Oil co
Coolant capacity-engine	25 L	- stan
Coolant capacity-std radiator	50 L	- prim
Coolant pump(drive/ratio)	1.85:1	Oil sys
Coolant flow with standard system	L/S	Oil su
Minimum coolant flow	4.8 L/S	Oil su
Max. out circuit restriction	/	Oil ch
Thermostat-start to open	86 °C	Oil pre
Thermostat-fully open	96 °C	Engin
Max. static pressure head	100 kPA	-front
Min. static pressure head	70 kPA	
Standard pressure cap setting	75 kPA	Electi

107 °C

Max. top tank temp

Fuel system	
System supply flow	177 L/H
Fuel supply line max. restriction	-10 kPA
Fuel supply line max pressure	O kPA
System return flow	25L/H
Fuel return line max restriction	20 kPA
Max. allowable inlet fuel temp	60 °C

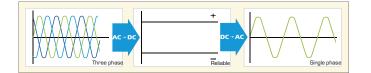
Lubrication system	
Oil consumption	
- standby power	0.11 L/H
- prime power	0.10L/H
Oil system capacity-include filters	48 L
Oil sump capacity-max.	42 L
Oil sump capacity- min.	32 L
Oil change intervals	500 H
Oil pressure at rated speed	300-650 kPA
Engine angularity limits	
-front up/down/side tilt	30°C

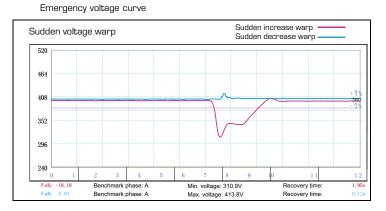
Electrical system	
Voltage	24 V
Alternator make/output	80 Amp
Starter motor	7 kW



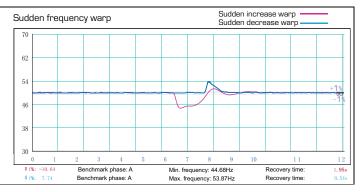
Alternator Specification

Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (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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