

• Model: V350E5

Powered by VOLVO





■ Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	315	350
Power (kW)	352	280
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):

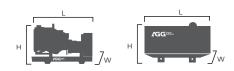
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	SP.	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	350	280	315	252	486.9
400/230	350	280	315	252	505.2
380/220	350	280	315	252	531.8

Performand	e Data		
	Model	V350E5	
En	igine brand	Volvo	
En	gine model	TAD1641GE	
Spee	d control type	ECM	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
F	requency	50HZ	
Engin	e speed (RPM)	1500	
	100% standby power	205	
Fuel	100% prime power	204	
Consumption	75% prime power	217	
(g/kwh)	50% prime power	233	

Standard reference Conditions

relative humidity. Fuel consumption dat with diesel fuel with specific gravity of $0.85\ \mathrm{and}$ conforming to BS 2869: 1998, Class A2



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	2965mm	4050mm	
Width (W)	1180 mm	1700mm	
Height (H)	1965mm	2320mm	
Net Weight	3336KG	REQ	
Fuel Tank (L)	720 L	REQ	



Engine Specification: TAD1341GE

6
In-line
4 stroke
13 L
131 mm
158 mm
18.1:1
NA
NA
1325 kg
1790 kg

Cooling system	_
Heat rejection radiation from engin	e at
- standby power	10 kW
- prime power	8kW
Heat engine rejection to coolant at	
- standby power	133 kW
- prime power	124 kW
Fan power consumption	6 kW
Fan drive ratio	0.84:1
Coolant capacity-engine	20 L
Coolant capacity-std radiator	24 L
Coolant pump(drive/ratio)	1.43:1
Coolant flow with standard system	5 L/S
Minimum coolant flow	4 L/S
Max. out circuit restriction	45 kPA
Thermostat-start to open	82 ℃
Thermostat-fully open	92 ℃

100 kPA

70 kPA 70 kPA

107 °C

Max. static pressure head

Min. static pressure head

Max. top tank temp

Standard pressure cap setting

Inlet / Exhaust Data	
Max. intake restriction	5 kPA
Heat rejection to exhaust	
- standby power	203 kW
- prime power	187 kW
Exhaust gas temp after turbine at	
- standby power	405°C
- prime power	414 °C
Max. back pressure in exhaust line	9 kPA
Exhaust gas flow at:	
- standby power	49 m 3 /min
- prime power	52 m 3 /min

Fuel system	
System supply flow	90 L/H
Fuel supply line max. restriction	30 kPA
Fuel supply line max pressure	20 kPA
System return flow	18 L/H
Fuel return line max restriction	20 kPA
Max. allowable inlet fuel temp	50 °C

Lubrication system	
Oil consumption	
- standby power	0.04 L/H
- prime power	0.04 L/H
Oil system capacity-include filters	36L
Oil sump capacity-max.	30 L
Oil sump capacity- min.	19 L
Oil change intervals	600 H
Oil pressure at rated speed	370-520 kPA
Lubrication oil temp in oil sump	130°C
Oil filter micron size	40μ

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

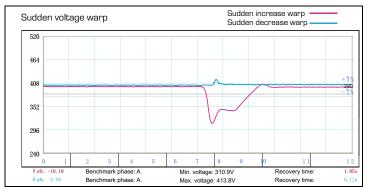


Alternator Specification

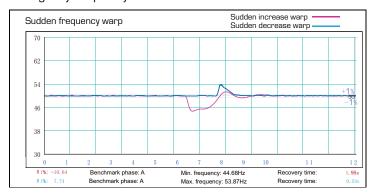
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating V	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping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



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Publication No. GYHO518N, ISSUE 1 @ AGG UK