

• Model: AF33D5

Powered by AGG





■ Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	30	33
Power (kW)	24	26
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):

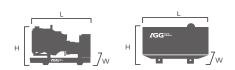
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES		PR		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	33	26	30	24	45.9
400/230	33	26	30	24	47.6
380/220	33	26	30	24	 50.1

Performance Data		
	Model	AF33D5
Er	igine brand	AGG
En	igine model	AF2540
Spee	d control type	Electronic
Phase		3
Control system		Digital
Starter motor voltage		12V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	7.7
Fuel	100% prime power	7
Consumption	75% prime power	5.26
(L/H)	50% prime power	3.7

Standard reference Conditions

Note: Standard reference condition $25^{\circ}C[77^{\circ}F]$ air inlet temp, 1000m(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)	1830mm	2017mm	
Width (W)	550mm	955mm	
Height (H)	1185mm	1100mm	
Net Weight	600KG	900 KG	
Fuel Tank (L)	105L	60 L	

Note: This parameters allows for some acceptable deviations.



■ Engine Specification : AF2540

Basic technical data	
No. of cyl / Arrangement	4L
Injection system	Direct
Governor Method	Electronic
Induction System	Turbocharged
Bore x stroke mm	90*100 mm
Displacement	2.545 L
Compression ratio	17.5 : 1
Engine speed	1500rpm
Flywheel rotation	Counter-clockwise
	viewed on flywheel
Housing flywheel	SAE 3
Flywheel	11.5"
Engine dry weight	240
Heat rejection of exhaust	23.9 kW
Heat rejection from engine	2.6 kW
Heat rejection of coolant	20.8 kW
Dimensions	750*600*735 mm

Intake system	
Air consumption at 100% of load	2.5 m³/min
Air intake restriction clean filter	≤ 2.5
Air filter type	Dry

7.1 m³/min
550 °C
6.7 kPa

Electric system	
starter motor power	3.5 kW
rated voltage	12 V
Starting batteries recommended capacity	100 Ah
Alternator rated voltage	14 V
power	750 kW

Performances	
Prime Power (gross)	29 kWm
Stand-By Power (gross)	32 kWm
Fan consumption	1.5 kWm
Performance conditions	
-temperature	25°C
-pressure	100 mbar
-humidity	30%

Cooling package	
Type	Liquid
Recommanded coolant	Water + Ethylene Glycol(50:50
Coolant capacity	8
Shutdown switch setting	100 ± 3°C
Fan	
-diameter	400 mm
-number of pale	7
-drive ratio	200/113

Lubrication system	
Oil system capacity including filters	8 L
Oil pressure at rated speed	>=3.5 kPA
Oil temperature max	110°C
Oil specification	15W40 CH
Oil consumption	0.05%

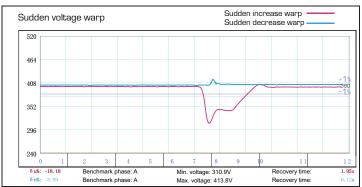


Alternator Specification

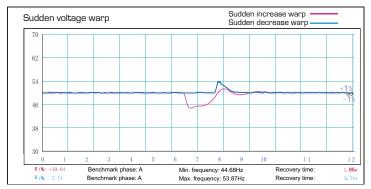
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	d) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



Emergency 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
- \bullet 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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