

Model: AF44D5

Powered by AGG





Generator Specification

Service	PRP (1)	ESP ₍₂₎
Power (kVA)	40	44
Power (kW)	32	35
Rated speed (r.p.m)	15	500
Standard voltage (V)	400/	/230V
Rated at power factor(cos phi) (.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):

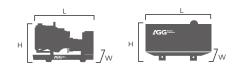
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	44	35	40	32	61.2
400/230	44	35	40	32	63.5
380/220	44	35	40	32	66.9

Performanc	ce Data	
	Model	AF44D5
Er	igine brand	AGG
Er	igine model	AF3860
Spee	d control type	Electronic
Phase		3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	10.3
Fuel	100% prime power	9.3
Consumption	75% prime power	7
(L/H)	50% prime power	4.8

Standard reference Conditions

Note: Standard reference condition 25°C[77°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)	1900mm	2297mm	
Width (W)	815mm	1055mm	
Height (H)	1287mm	1250mm	
Net Weight	900KG	1100KG	
Fuel Tank (L)	200L	100L	

Note: This parameters allows for some acceptable deviations.



Engine Specification : AF3860

4L
Direct
Electronic
Naturally Aspirated
102*118 mm
3.86 L
17.5 : 1
1500rpm
Counter-clockwise
viewed on flywheel
SAE 3
11.5"
350
31.6 kW
3.3 kW
26.1 kW
810*680*800 mm

Intake system	
Air consumption at 100% of load	3.1 m³/min
Air intake restriction clean filter	≤ 2.5
Air filter type	Dry

Exhaust system	
Gas flow at stand by power	9.3 m³/min
Max temperature	550 °C
Max allowable back pressure	6.7 kPa

Electric system	
starter motor power	4.5 kW
rated voltage	24 V
Starting batteries recommended o	capacity 120*2 Ah
Alternator rated voltage	28 V
power	1000 kW

Performances	
Prime Power (gross)	39 kWm
Stand-By Power (gross)	43 kWm
Fan consumption	1.3 kWm
Performance conditions	
-temperature	25°C
-pressure	100 mbar
-humidity	30%

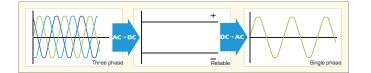
Lubrication system	
Oil system capacity including filters	12.5 L
Oil pressure at rated speed	>=3.5 kPA
Oil temperature max	110 °C
Oil specification	15W40 CF4
Oil consumption	0.06%

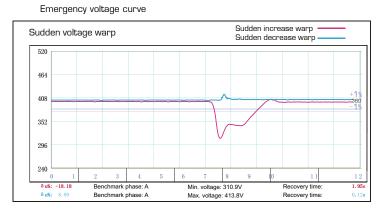
Cooling package	
Туре	Liquid
Recommanded coolant	Water + Ethylene Glycol(50:50)
Coolant capacity	TBD
Shutdown switch setting	100 ± 3°C
Fan	
-diameter	420 mm
-number of pale	7
-drive ratio	185/110



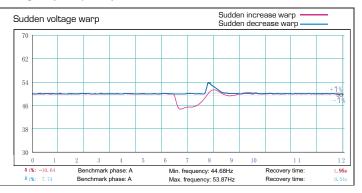
Alternator Specification

3
0.8
4
l) Star-serie
12
H class
2/3
IP23
Self-excited
Single bearing
Vacuum impregnation
A.V.R
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
- Eventlog



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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 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, ±1.6 mm
 - 5-100Hz, a=4g Shocks: a= 500m/s²
- 5000ks: a= 50000/ s-

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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