



Model: AF66D5

Powered by AGG





■ Generator Specification

Power (kVA)	6 0	6 6	
Power(kW)	48	53	
Ratedspeed(r.p.m)	1	.500	
Standard voltage (V)	400	/230V	
Ratedatpowerfactor(cosphi)	0.8		





AGG Powergensets 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):

 $According \ to \ ISO 8528-1, prime \ power \ is \ the \ maximum \ power \ available \ during \ a \ variable$ 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):

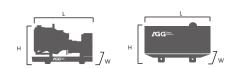
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers		ES	Р	Pl	R P	Standby
Voltage (V)		KVA	KW	KVA	KW	Am p s
4 1 5/ 2 40	6 6	5 3	6 0	48	9 1.8	
4 0 0/ 2 30	6 6	5 3	6 0	48	9 5.3	
380/220		66	53	60	48	100.3

no	e Data	
Mo d e l		A F 6 6 D 5
En	ginebrand	AGG
En	gine model	AF3860
Spee	d control type	Electronic
	Phase	3
Control system		D ig ital
Starter motor voltage		24V
Frequency		5 0 H Z
Enginespeed (RPM)		1500
	100% standbypower	14.8
Fuel	100% prime power	13.4
Consumption	75% prime power	10
(L/H)	50% prime power	7

 $S \ tan \ d \ ar \ d \ r \ ef \ er \ en \ ce \ C \ o \ n \ d \ itio \ n \ s$

 $relative\ humidity. Fuel\ consumption\ dat\ \ with\ dieselfuel\ with\ specific\ gravity\ of\ 0.85\ and$ conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	1730mm	2 6 0 0 m m
Width (W)	1010mm	9 0 0 m m
Height (H)	1480mm	1 2 7 6 m m
Net Weight	930 KG	1 2 2 0 K G
Fuel Tank (L)	100 L	100 L

Note: This parameters allows for some acceptable deviations.







■ Engine Specification :AF3860

Basic technical data	
No. of cyl / Arrangement	4L
Injection system	Direct
GovernorMethod	Electronic
InductionSystem	Turbocharged & Aftercooled
Borexstrokemm	102*118 mm
Displacement	3.86 L
Compression ratio	17.5 : 1
Enginespeed	1500rpm
Flywheel rotation	Counter-clockwise
	viewed on flywheel
Housing flywheel	SAE 3
Fly w h e e l	11.5"
Enginedry weight	380
Heatrejection of exhaust	4 4 k W
Heatrejection fromengine	5.1 kW
Heatrejection of coolant	41.6 kW
Dimensions	810*700*850 mm

Intake system	
Air consumption at 100% of load	4.8 m3/min
Air intake restriction clean filter	≤ 2.5
Air filter type	Dry

Exhaust system		
Gasflowatstandbypower	13.8m3/min	
Maxtemperature	5 50° C	
Maxallowable backpressure	6.7kPa	

Electric system		
starter motor power	4.5 kW	
rated voltage	2 4 V	
Star tin g b atteriesrecommendedcapacity 120* 2 A h		
Alternator rated voltage	28 V	
power	1000 kW	

Performances	
Prime Power(gross)	57 kWm
Stand-By Power (gross)	64 kW m
Fan consumption	3 k W m
Performance conditions	
-temperature	25 ° C
-pressure	100 mbar
-humidity	30%

k W m	Туре	L iq u id
k W m	Recommanded coolant	Water+ Ethylene Glycol(50:50)
W m	Coolantcapacity	TBD
	Shutdown switch setting	100 ± 3 º C
5°C	Fan	
m b a r	-d iam e te r	5 2 0 m m
0%	-number of pale	7
_	-drive ratio	185/110

Lubrication system	
Oil system capacity including filters	13 L
Oil pressure at rated speed	>=3.5 kPA
Oil temperature max	110 °C
Oil specification	15W40CH
Oil consumption	0.05%



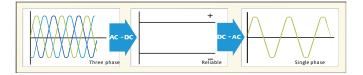




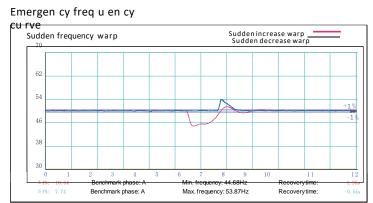
Recoverytime:

AlternatorSpecification

Alternator	
Number of phase	3
Powerfactor(CosPhi	0.8
Poles	4
Winding Connections	(standard) Star-serie
Terminals	12
Insulation type	H class
WindingPitch	2/3
IP rating	IP23
Excitationsystem	Se If -e xc ite d
Bearing	Single bearing
Coating	Vacuumimpregnation
Voltageregulator	A.V.R
Couping	Flexible disc



Max. voltage: 413.8V



Options

Engine	Alternator	Generator Sets	Fuel System
 WaterJacket 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 fuellevelalar m Automatic fuel feeding system Fuel T-valves
Canopy	Lub oils ystem	Cooling System	Control Panel
Rental type CanopyTrailer	Oil Pre-heaterOil temp sensor	• Front heat protection	 Remotecontrolpanel ATS Synchronizingcontroller Adjustable earth leakage relay

δ u%: 8, 89

Benchmark phase: A







Control Panel

Configuration

- Emergencystop button
- Protection MCB
- Battery charger
- · Integrated aviation plug
- ATSconnection
- 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 vla 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

Benefit

- 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

Operationconditions

- 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 1 00 Hz , a = 4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring an 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
- Lowfuellevelalarm
- Lowfuellevelshutdown
- 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 $\,d$ is p layed on LCD screen
- Additional 8 inputs and outputs



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