• Model: DE550E5

Powered by DEUTZ





■ Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	500	550
Power (kW)	400	440
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):

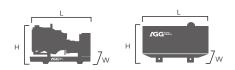
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	550	440	500	400	765.2
400/230	550	440	500	400	793.9
380/220	550	440	500	400	835.7

Performance Data			
	Model	DE550E5	
Er	igine brand	Deutz	
En	gine model	BF8M1015CP	
Spee	d control type	ECU	
Phase		3	
Control system		Digital	
Starte	r motor voltage	12/24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	-	
Fuel	100% prime power	131.3	
Consumption	75% prime power	93.2	
(L/H)	50% prime power	61.8	

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)	2945mm	4362mm	
Width (W)	1295mm	1700mm	
Height (H)	2145mm	2515mm	
Net Weight	3199KG	4840KG	
Fuel Tank (L)	1000L	700L	



■ Engine Specification: BF8M1015CP

6	
In-line	
4 stroke	
Bosch inline pump	
16 L	
132 mm	
145 mm	
16.5:1	
TBD	
7.26m/s	
CCW	
1060kg	

Cooling system			
Delivery of coolant pump	20.8 m³/h		
Min. pressure before coolant pump	o O.8 bar		
Coolant capacity(engine)	21 L		
Coolant capacity (incl. cooling unit)	116 L		
Air to boil	49℃		
Fan power consumption	14.1 KW		
Cooling air flow	33120 m³/h		
Air pressure loss, external	1.5 mbar		
Heat balance			
Heat dissipation (engine radiator)	237 KW		
Heat dissipation (CAC)	124 KW		
Heat dissipation (Convection)	40 KW		

Inlet / Exhaust Data	
Max. intake depression(switch setting)	50 mbar
Combustion air volume	2002 m³/h
Max. exhaust back pressure	50 mbar
Max. exhaust gas temperature	600 ℃
Exhaust gas flow (at above temp)	6012 m³/h
Exhaust flange/pipe diameter	TBD

Output	
Gross output (LTP)	490 KW
Fan reduction	5.4 KW
Net flywheel	55 KW
Electrical output	559kVA
Gross output (PRP)	TBD
Gross output (Continous power)	TBD

Lubrication system	
Oil specification	TBD
Oil consumption	
(as % of fuel consumption)	0.3
Oil capacity (sump)	45 L
Min. oil pressure (warning)	3 bar
Min. oil pressure (shut down)	2.7 bar
Max. permissible oil temp(oil pan)	130°C

Electrical system	
Voltage	24V
Starter	5.4kW
Alternator output	55A

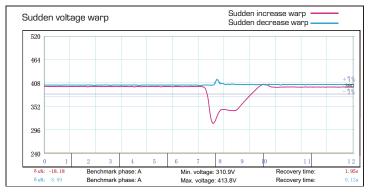


Alternator Specification

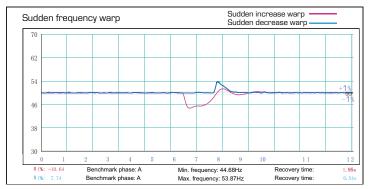
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)) Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating V	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping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