



# • Model: DE200D5

**Powered by DEUTZ** 





## **Generator Specification**

Service	PRP(1)	ESP <sub>(2)</sub>
Power (kVA)	180	200
Power (kW)	144	160
Rated speed ( r.p.m)	1500	)
Standard voltage (V)	400/23	30V
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):

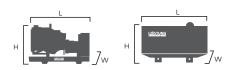
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PRF		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	200	160	180	144	278.2
400/230	200	160	180	144	288.7
380/220	200	160	180	144	303.9

Performance Data			
	Model	DE200D5	
Er	igine brand	Deutz	
En	igine model	BF6M1013EC G2	
Spee	d control type	ECU	
	Phase	3	
Control system		Digital	
Starte	r motor voltage	12/24V	
Frequency		50HZ	
Engin	e speed (RPM)	1500	
	100% standby power	-	
Fuel	100% prime power	45.9	
Consumption (L/H)	75% prime power	34.2	
	50% prime power	23.1	

#### Standard reference Conditions

Note: Standard reference condition  $25^{\circ}C[77^{\circ}F]$  air inlet temp, 100m(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)	2560mm	3950mm		
Width (W)	1115mm	1250mm		
Height (H)	1660mm	2102mm		
Net Weight	1748KG	2547KG		
Fuel Tank (L)	330L	415L		



## ■ Engine Specification: BF6M1013EC G2

6	
In-line	
4 stroke	
Single injection pumps	
7.146 L	
108 mm	
130 mm	
19:1	
17.1 bar	
6.5 m/s	
CCW	
TBD	

Cooling system	
Delivery of coolant pump	10.2m³/h
Min. pressure before coolant pump	O.3bar
Coolant capacity(engine)	9.8L
Coolant capacity (incl. cooling unit)	23.1L
Air to boil	55 ℃
Fan power consumption	7.2 KW
Cooling air flow	10800m³/h
Air pressure loss, external	1.5 mbar
Heat balance	
Heat dissipation (engine radiator)	78.3KW
Heat dissipation (CAC)	28.8KW
Heat dissipation (Convection)	17.7 KW

Inlet / Exhaust Data	
Max. intake depression(switch setting)	25 mbar
Combustion air volume	682 m³/h
Max. exhaust back pressure	30 mbar
Max. exhaust gas temperature	560 ℃
Exhaust gas flow (at above temp)	1905 m³/h
Exhaust flange/pipe diameter	TBD

175 KW
7.2 KW
167.8 KW
200kVA
160KW
150KW

Lubrication system	
Oil specification	TR0199-99-3002/6
Oil consumption	
(as % of fuel consumption)	0.3
Oil capacity (sump)	20L
Min. oil pressure (warning)	2.7 bar
Min. oil pressure (shut down)	2 bar
Max. permissible oil temp(oil p	an) 130 ℃

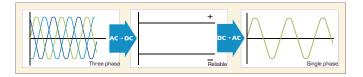
Electrical system	
Voltage	24V
Starter	6kW
Alternator output	35A



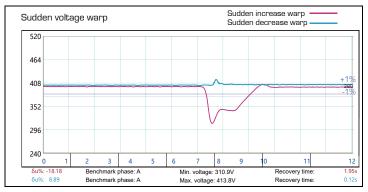


## **Alternator Specification**

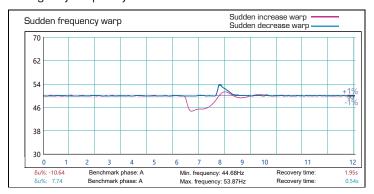
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating Va	acuum impregnation	
Voltage regulator	A.V.R	
Couping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



## Emergency voltage curve



## Emergency frequency curve



## **O**ptions

Engine	Alternator	Generator Sets	Fuel System
<ul> <li>Water Jacket Pre-heater</li> <li>Fuel heater</li> </ul>	<ul> <li>Winding Temp measuring Instrument</li> <li>Alternator Pre-heater</li> <li>PMG</li> <li>Anti-damp and anti-corrosion treatment</li> <li>Anti-condensation heater</li> <li>Winding and bearing RTD</li> </ul>	Tools with the machine Extended range fuel tank Bunded fuel tank  Tools with the machine	<ul> <li>Low fuel level alarm</li> <li>Automatic fuel feeding system</li> <li>Fuel T-valves</li> </ul>
Canopy	Lub oil system	Cooling System	Control Panel
<ul><li>Rental type Canopy</li><li>Trailer</li></ul>	<ul><li>Oil Pre-heater</li><li>Oil temp sensor</li></ul>	Front heat protection	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>





## 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 °C to + 70 °C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ±1.6mm
  - 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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info@leistung-energie.com | www.leistung-energie.com

Unit 1804, South Bank Tower, 55 Upper Ground, London, United Kingdom SE1 9EY

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