



■ Model: DE100D5

Powered by DEUTZ





Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	91	100
Power (kW)	73	80
Rated speed (r.p.m)	15	i00
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):

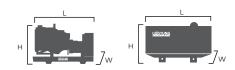
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	100	80	91	73	139.1
400/230	100	80	91	73	144.3
380/220	100	80	91	73	151.9

Performance Data			
Model		DE100D5	
Er	Engine brand Deutz		
En	igine model	BF4M1012C G2	
Speed control type Mechanical			
	Phase	3	
Сог	ntrol system	Digital	
Starter motor voltage		12/24V	
Frequency		50HZ	
Engin	e speed (RPM)	1500	
	100% standby power	-	
Fuel	100% prime power	19.3	
Consumption	75% prime power	14.4	
(L/H)	50% prime power	9.7	

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)	2102mm	2930mm	
Width (W)	1042mm	1100mm	
Height (H)	1555mm	1732mm	
Net Weight	1175KG	1643KG	
Fuel Tank (L)	210L	170L	



■ Engine Specification: BF4M1012C G2

Basic technical data		
No. of cylinders	4	
Cylinder arrangement	In-line	
Cycle	4 stroke	
Injection system	Single injection pumps	
Displacement	4.04 L	
Bore	101 mm	
Stroke	126 mm	
Compression ratio	18.4:1	
Mean effective pressure	14.8 bar	
Piston speed	6.3 m/s	
Rotation	CCW	
Exhaust emission standard	405kg	

Cooling system		
Delivery of coolant pump	7.2m³/h	
Min. pressure before coolant pump	O.3bar	
Coolant capacity(engine)	6L	
Coolant capacity (incl. cooling unit)	15.9L	
Air to boil	55 ℃	
Fan power consumption	4.9 KW	
Cooling air flow	4700m³/h	
Air pressure loss, external	1.5 mbar	
Heat balance		
Heat dissipation (engine radiator)	43.1KW	
Heat dissipation (CAC)	7.5 KW	
Heat dissipation (Convection)	7.5 KW	

Inlet / Exhaust Data	
Max. intake depression(switch setting)	25 mbar
Combustion air volume	267m³/h
Max. exhaust back pressure	30 mbar
Max. exhaust gas temperature	600 ℃
Exhaust gas flow (at above temp)	829m³/h
Exhaust flange/pipe diameter	TBD

74.9 KW
4.9 KW
70 KW
79 kVA
71 KW
68 KW

Lubrication system		
Oil specification TR0199-99-3002/6		
Oil consumption		
(as % of fuel consumption)	0.15	
Oil capacity (sump)	8.5L	
Min. oil pressure (warning)	1.8 bar	
Min. oil pressure (shut down)	1.5 bar	
Max. permissible oil temp(oil p	an) 125 ℃	

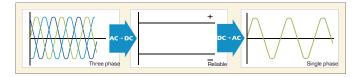
Electrical system	
Voltage	12 V
Starter	3 KW
Alternator output	45 A



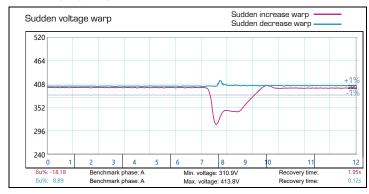


Alternator Specification

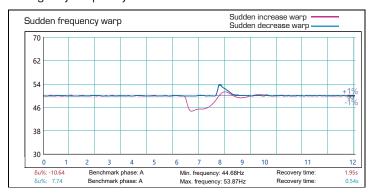
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating Va	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping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