



• Model: DE33D5

Powered by DEUTZ





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	30	33
Power (kW)	24	26
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):

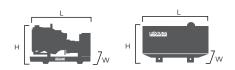
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	33	26	30	24	45.9
400/230	33	26	30	24	47.6
380/220	33	26	30	24	50.1

Performance Data			
Model		DE33D5	
Er	igine brand	Deutz	
En	igine model	BFM3 G2	
Spee	d control type	ECU	
	Phase	3	
Control system		Digital	
Starter motor voltage		12/24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	-	
Fuel	100% prime power	7.7	
Consumption	75% prime power	5.38	
(L/H)	50% prime power	3.9	

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)	1780mm	2300mm	
Width (W)	750mm	950mm	
Height (H)	1100mm	1276mm	
Net Weight	762KG	850KG	
Fuel Tank (L)	-	50L	



■ Engine Specification: BFM3 G2

Basic technical data		
No. of cylinders	4	
Cylinder arrangement	In-line	
Cycle	4 stroke	
Injection system	in-line pump	
Displacement	3.168 L	
Bore	98 mm	
Stroke	105 mm	
Compression ratio	18.5:1	
Mean effective pressure	8.3 bar	
Piston speed	5.25 m/s	
Rotation	CCW	
Exhaust emission standard	TBD	

Cooling system		
Delivery of coolant pump	4.2m³/h	
Min. pressure before coolant pump	O.15bar	
Coolant capacity(engine)	4.8L	
Coolant capacity (incl. cooling unit)	TBD	
Air to boil	50 ℃	
Fan power consumption	2 KW	
Cooling air flow	3960m³/h	
Air pressure loss, external	1.5 mbar	
Heat balance		
Heat dissipation (engine radiator)	29KW	
Heat dissipation (CAC)	TBD	
Heat dissipation (Convection)	TBD	

Inlet / Exhaust Data	
Max. intake depression(switch setting)	30 mbar
Combustion air volume	142m³/h
Max. exhaust back pressure	100 mbar
Max. exhaust gas temperature	530 ℃
Exhaust gas flow (at above temp)	270m³/h
Exhaust flange/pipe diameter	TBD

Output	
Gross output (LTP)	32 KW
Fan reduction	2 KW
Net flywheel	12.6 KW
Electrical output	33kVA
Gross output (PRP)	29KW
Gross output (Continous power)	26KW

Lubrication system	
Oil specification	CF-4
Oil consumption	
(as % of fuel consumption)	0.5
Oil capacity (sump)	7.5L
Min. oil pressure (warning)	1.5 bar
Min. oil pressure (shut down)	1.Obar
Max. permissible oil temp(oil pan)	120℃

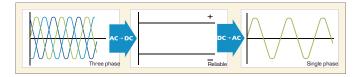
Electrical system	
Voltage	12 V
Starter	3 KW
Alternator output	55 A



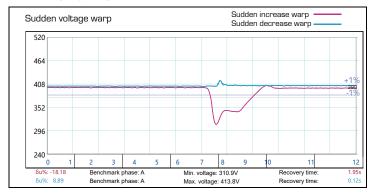


Alternator Specification

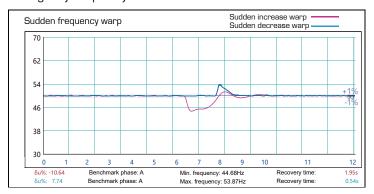
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating Va	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping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