

# Model: DE66D5

**Powered by DEUTZ** 





### Generator Specification

Service	<b>PRP</b> (1)	ESP(2)
Power (kVA)	60	66
Power (kW)	48	53
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):

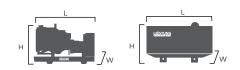
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	66	53	60	48	91.8
400/230	66	53	60	48	95.3
380/220	66	53	60	48	100.3

Performance Data			
Model		DE66D5	
Er	igine brand	Deutz	
Er	igine model	BF4M2012	
Spee	d control type	Mechanical	
Phase		3	
Control system		Digital	
Starter motor voltage		12/24V	
Frequency		50HZ	
Engin	e speed (RPM)	1500	
	100% standby power	-	
Fuel Consumption (L/H)	100% prime power	16.9	
	75% prime power	11.8	
	50% prime power	8.1	

#### Standard reference Conditions

Note: Standard reference condition 25°C[77°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)	1860mm	2930mm	
Width (W)	1035mm	1100mm	
Height (H)	1485mm	1732mm	
Net Weight	1180KG	1460KG	
Fuel Tank (L)	210L	170L	

# Engine Specification: BF4M2012

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	11.9 bar	
Piston speed	6.3 m/s	
Rotation	CCW	
Exhaust emission standard	СОМП	

Output	
Gross output (LTP)	60 KW
Fan reduction	2 KW
Net flywheel	58 KW
Electrical output	65kVA
Gross output (PRP)	54KW
Gross output (Continous power)	51KW

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Lubrication system	
Oil specification	TR0199-99-3002/6
Oil consumption	
(as % of fuel consumption)	O.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	oan) 125 ℃

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	2 KW
Cooling air flow	5400m³/h
Air pressure loss, external	1.5 mbar
Heat balance	
Heat dissipation (engine radiator)	41.1KW
Heat dissipation (CAC)	TBD
Heat dissipation (Convection)	6KW

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

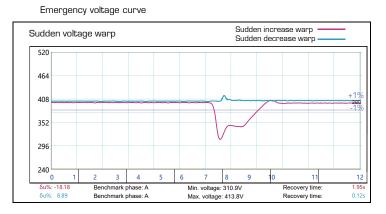
Inlet / Exhaust Data	
Max. intake depression(switch setting)	25 mbar
Combustion air volume	219.6m³/h
Max. exhaust back pressure	30 mbar
Max. exhaust gas temperature	610 ℃
Exhaust gas flow (at above temp)	526m³/h
Exhaust flange/pipe diameter	TBD



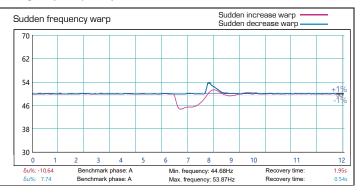
# Alternator Specification

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





#### Emergency frequency curve



# Options

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>	<ul> <li>Tools with the machine</li> <li>Extended range fuel tank</li> <li>Bunded fuel tank</li> </ul>	<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>	<ul> <li>Front heat protection</li> </ul>	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>



#### 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



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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

#### 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 ℃ to + 80 ℃
- 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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