

Model: K33D5

Powered by KUBOTA



Generator Specification

Service	PRP (1)	ESP(2)
Power (kVA)	30	33
Power (kW)	24	26.4
Rated speed (r.p.m)	15	500
Standard voltage (V)	400,	/230V
Rated at power factor(cos phi) ().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):

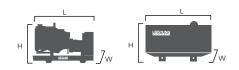
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PRF	2	Standby
Voltage (V)	KVA	ĸw	KVA	ĸw	Amps
415/240	33	26.4	30	24	45.9
400/230	33	26.4	30	24	47.6
380/220	33	26.4	30	24	50.1

Performance Data			
Model		K33D5	
Er	igine brand	КИВОТА	
Er	gine model	V3300-BG	
Spee	d control type	Mechanical	
	Phase	3	
Control system		Digital	
Starter motor voltage		12V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	7.6	
Fuel Consumption (L/H)	100% prime power	6.6	
	75% prime power	4.8	
	50% prime power	3.3	

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)	-	-
Width (W)	-	-
Height (H)	-	-
Net Weight	-	-
Fuel Tank (L)	-	-



Engine Specification: V3300-BG

Basic technical data		
No. of cylinders	4	
Cylinder arrangement	In-line	
Cycle	4 stroke	
Combustion type	Spherical Type (E-TVCS)	
Compression ratio	22.6:1	
Bore	98mm	
Stroke	110mm	
Displacement	3.318L	
Firing Order	1-3-4-3	
Dry Weight	241kg	

Induction system			
Combustion Air Requirements			
(25 and 750mmHg) 2.6m³/min			
Exhaust Gas Volume			
(25 and 750mmHg) 7.16m³/min			

Lubrication system	
Class CF lubricating oil as per API	
classification is recommended	
Forced Lubricating by Trochoid Pump	
Lub.Oil Capacity	13.2L

Cooling system			
Pressurized Radiator,			
Forced Circulation with wat	er pump _		
Ho(Heat Rejection to coolant) 28.664 kcal/h			
Thermostat(Opening Temp.) 76.5			
Thermostat cover Up Outlet			
Fan Spacer	Fan Spacer 12mm		
Fan	Ф430mm 6 blades, Pusher		
Fan Pulley	ф 13 О		
Fan Drive Pulley	ф14З		

Electrical system	
Starter	12V - 2.5kW
Alternator	12V - 45A

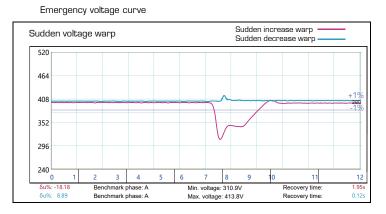
Fuel system	
Injection Pump	Bosch Type
Fuel Injection Pressure	13.73 Mpa
Fuel Pump	Mechanical
Fuel Injection Timing	17.0 deg
Fuel Oil	Diesel Fuel No.2-D(ASTMD975)



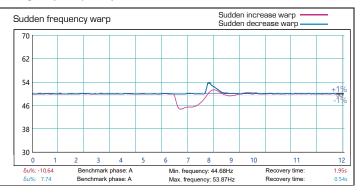
Alternator Specification

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
 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



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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