

• Model: C1375D5

Powered by CUMMINS





Generator Specification

Service	PRP ₍₁₎	ESP(2)
Power (kVA)	1250	1375
Power (kW)	1000	1100
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):

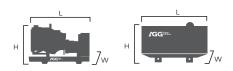
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PR	Р	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	1375	1100	1250	1000	1913.0
400/230	1375	1100	1250	1000	1984.7
380/220	1375	1100	1250	1000	2089.2

Performand	ce Data	
	Model	C1375D5
Er	ngine brand	Cummins
Er	igine model	KTA50G3
Spee	d control type	Electronic
	Phase	3
Cor	ntrol system	Digital
Starte	r motor voltage	24V
F	requency	50HZ
Engin	e speed (RPM)	1500
	100% standby power	293
Fuel	100% prime power	261
Consumption	75% prime power	199
(L/H) 	50% prime power	139

Standard reference Conditions

relative humidity. Fuel consumption dat with diesel fuel with specific gravity of $0.85\ \mathrm{and}$ conforming to BS 2869: 1998, Class A2



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	4985mm	6058mm	
Width (W)	2200mm	2438mm	
Height (H)	2500mm	2591mm	
Net Weight	10470KG	20278KG	
Fuel Tank (L)	1000	1000	



■ Engine Specification: KTA50G3

Basic technical data	
No. of cylinders	16
Cylinder arrangement	60° Vee
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	13.9:1
Bore	159mm
Stroke	159mm
Displacement	50.3L
Engine idle speed	725-775 RPM
Approximate engine weght	5360kg

Cooling system	
Coolant capacity-engine	161L
Maximum coolant friction	
head external to engine:	
-1800 rpm	103 KPA
-1500 rpm	69 KPA
Maximum static head of coolant	
above engine crank centerline	18.3m
Standard Thermostat	
(Modulating) Range	82 -93℃
Minimum Pressure Cap	96 KPA
Maximum Top Tank Temperature	104/100℃
for Standby / Prime Power	

Fuel system		
Injection system	Cummins PT	
Governor type	Electronic	
Maximum Allowable Head on In	jector	
Return Line (Consisting of Fricti	ion	
Head and Static Head)	165mm Hg	
Maximum Restriction at PT Fuel Injection Pump		
—with Clean Fuel Filter	102mm Hg	
—with Dirty Fuel Filter	203mm Hg	

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	25 in H2O
-Clean element	15 in H2O

Lubrication system	
Engine oil pressure for engine	
protection devices:	
Idle speed(Minimum)	138kPa
— Governed speed(Maximum)	345-483kPa
Maximum oil temperature	121 ℃
Total System Capacity	
(Including Bypass Filter)	177 L

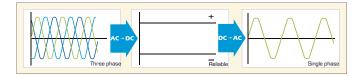
Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24V
Battery charging system,	
negative ground	35 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm

General installation	Prime power
Gross engine power output	1097kWm
Piston speed	7.9m/s
Friction horsepower	116kWm
Intake air flow	1605L/S
Exhaust gas flow	3728L/min
Exhaust gas temperature	520℃
Radiated heat to ambient	130kWm
Heat rejection to coolant	680kWm

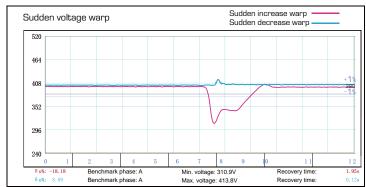


Alternator Specification

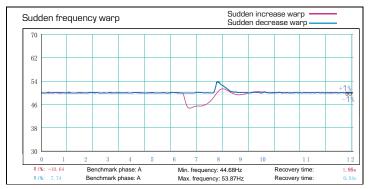
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



Emergency voltage curve



Emergency frequency curve



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 $^{\circ}$ C to + 70 $^{\circ}$ C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ± 1.6 mm
 - 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



AGG UK | AGG China | AGG USA | AGG UAE info@aggpower.co.uk | www.aggpower.co.uk



in Follow us @linkedin.com/company/agg-power

Follow us @ AGGPOWER

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

Distributed by

Publication No. GYHO518N, ISSUE 1 @ AGG UK