

• Model: C1100D5

Powered by CUMMINS





Generator Specification

Service F	P RP (1)	ESP(2)
Power (kVA) 1	1000	1100
Power (kW)	800	880
Rated speed (r.p.m)	1500)
Standard voltage (V)	400/23	ΟV
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	ESI	Р	PR	כ	Standby
Voltage (V)	KVA	ĸw	KVA	ĸw	Amps
415/240	1100	880	1000	800	1530.4
400/230	1100	880	1000	800	1587.8
380/220	1100	880	1000	800	1671.3

Performan	ce Data	
	Model	C1100D5
Er	igine brand	Cummins
Er	igine model	KTA38G5
Spee	d control type	Electronic
	Phase	3
Сог	ntrol system	Digital
Starte	r motor voltage	24 V
F	Frequency	50 HZ
Engin	e speed (RPM)	1500
	100% standby power	228
Fuel	100% prime power	209
Consumption	75% prime power	161
(L/ HJ	50% prime power	113

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 N	Weight	
Dimension	Open	Silent
Length (L)	4180mm	6058mm
Width (W)	2000mm	2438mm
Height (H)	2240mm	2591mm
Net Weight	7517 KG	12700 KG
Fuel Tank (L)	-	1000

Engine Specification: KTA38G5

Basic technical data	
No. of cylinders	12
Cylinder arrangement	60° Vee
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	14.5:1
Bore	159mm
Stroke	159mm
Displacement	37.8 L
Engine idle speed	725-775 RPM
Approximate engine weght	4300kg

Cooling system	
Coolant capacity-engine	124 L
Maximum coolant friction	
head external to engine:	
-1800 rpm	/
-1500 rpm	48 kPA
Maximum static head of coolant	
above engine crank centerline	18.3m
Standard Thermostat	
(Modulating) Range	82 - 93 °C
Minimum Pressure Cap	/
Maximum Top Tank Temperature	
for Standby / Prime Power	104/100 ℃

for Standby / Prime Power	104∕100 ℃	
		F
Fuel system		F
Injection system	Cummins PT	E
Governor type	Electronic	
Maximum restriction at lift pump	/	E
Maximum fuel inlet temperature	/	E
Total drain flow		F

/

(constant for all loads)

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)	138 kPA
— Governed speed (Maximum)	310-448 kPA
Maximum oil temperature	121 ℃
Minimum required lube system	

Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24 V
Battery charging system,	
negative ground	35 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm
Minimum recommended battery	
capacity- cold soak	1800 CCA

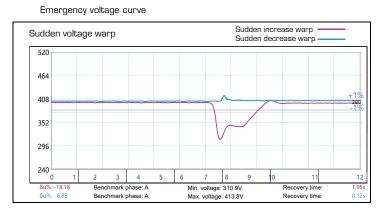
General installation	Prime power
Gross engine power output	895 kW
Piston speed	7.9 m/s
Friction horsepower	86 kW
Engine water flow to engine	19.6 l/min
Intake air flow	1213 l/sec
Exhaust gas flow	3360 l/min
Exhaust gas temperature	513 ℃
Radiated heat to ambient	137 kW
Heat rejection to coolant	594 kW
Heat rejection to fuel	TBD



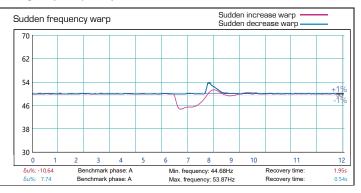
Alternator Specification

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
 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

Distributed by	/	