



# ■ Model: C3001

# **Powered by CUMMINS**





# **Generator Specification**

Service F	PRP(1)	ESP(2)
Power (kVA)	275	300
Power (kW)	220	240
Rated speed ( r.p.m)	1500	)
Standard voltage (V)	400/23	0 V
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):

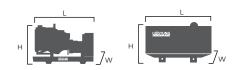
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PRI	Þ	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	300	240	275	220	417.4
400/230	300	240	275	220	433.0
380/220	300	240	275	220	455.8

Performance Data		
	Model	C300D5
Er	igine brand	Cummins
En	igine model	6LTAA9.5G3
Spee	d control type	Electronic
	Phase	3
Cor	ntrol system	Digital
Starte	r motor voltage	24 V
F	requency	50 HZ
Engine speed (RPM)		1500
	100% standby power	66
Fuel	100% prime power	58
Consumption	75% prime power	44
(L/H) 	50% prime power	30

#### 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)	2690mm	4212mm
Width (W)	1175mm	1400mm
Height (H)	1860mm	2195mm
Net Weight	2019 KG	3455 KG
Fuel Tank (L)	600 L	640 L



# ■ Engine Specification: 6TLAA9.5G3

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	14.5:1
Bore	140mm
Stroke	152mm
Displacement	14L
Engine idle speed	575-650 RPM
Approximate engine weght	1410kg

Cooling system	
Coolant capacity-engine	20.8 L
Maximum coolant friction	
head external to engine:	
-1800 rpm	/
-1500 rpm	41 kPA
Maximum static head of coolant	
above engine crank centerline	14.0m
Standard Thermostat	
(Modulating) Range	82 - 94 ℃
Minimum Pressure Cap	103 kPA
Maximum Top Tank Temperature	
for Standby / Prime Power	104 / 100 ℃

Fuel system	
Injection system	Cummins PT
Governor type	Electronic
Maximum restriction at lift pump	/
Maximum fuel inlet temperature	71 ℃
Total drain flow	
(constant for all loads)	/

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	6.22 kPA
-Clean element	3.74 kPA

Lubrication system	
Engine oil pressure for engine	
protection devices:	
<ul><li>Idle speed (Minimum)</li></ul>	103 kPA
— Governed speed (Maximum)	241-345 kPA
Maximum oil temperature	121℃
Minimum required lube system	
capacity - sump plus filters	38.6 L

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	900 CCA

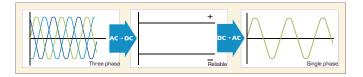
General installation	Prime power
Gross engine power output	291 kW
Piston speed	7.62 m/s
Friction horsepower	22 kW
Engine water flow - GPM (L/min.)	5 I/min
Intake air flow	379 l/sec
Exhaust gas flow	936 l/sec
Exhaust gas temperature	498 ℃
Radiated heat to ambient	182 kW
Heat rejection to coolant	218 kW
Heat rejection to fuel	/



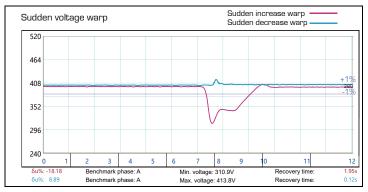


# **Alternator Specification**

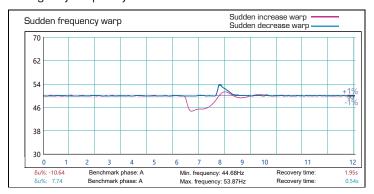
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



### Emergency voltage curve



# Emergency frequency curve



# **O**ptions

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>	Front heat protection	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>





## 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=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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