

Model: C275D5N

Powered by CUMMINS





Generator Specification

Service I	PRP(1)	ESP(2)
Power (kVA)	250	275
Power (kW)	200	220
Rated speed (r.p.m)	1500)
Standard voltage (V)	400/23	30V
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):

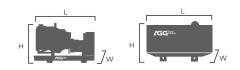
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	βP	PR	P	Standby
Voltage (V)	KVA	KW	KVA	ĸw	Amps
415/240	275	220	250	200	382.6
400/230	275	220	250	200	396.9
380/220	275	220	250	200	417.8

Performance Data				
Model		C275D5		
Engine brand		Cummins		
Engine model		NT855GA		
Speed control type		Electronic		
Phase		3		
Control system		Digital		
Starter motor voltage		24V		
Frequency		50HZ		
Engine speed (RPM)		1500		
	100% standby power	58.4		
Fuel	100% prime power	53.4		
Consumption	75% prime power	41.3		
(L/H)	50% prime power	29.4		

Standard reference Conditions

Note: Standard reference condition 25 $^\circ$ (77 $^{\rm F}$) 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) 2600mm 3970mm Width (W) 1070mm 1170mm Height (H) 1820mm 2222mm Net Weight 2180KG 2762KG Fuel Tank (L) 400 360



Engine Specification: NT855GA

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
СусІе	4 stroke
Induction system	Turbocharger
Compression ratio	15.0:1
Bore	140mm
Stroke	152mm
Displacement	14L
Firing order	1-5-3-6-2-4
Fan to flywheel engine	1270kg

Cooling system	
Coolant capacity-engine	20.8L
Maximum coolant friction	
head external to engine:	
-1500 rpm	41kPA
Maximum static head of coolant	
above engine crank centerline	14.0m
Standard Thermostat	
(Modulating) Range	82 - 94 °C
Minimum Pressure Cap	48.2 kPa
Maximum Top Tank Temperature	
for Standby / Prime Power	104 / 100℃

Direct injection cummins PT

13mm

16mm

71℃ 1148kPa

232 L

Fuel system

Injection system

Fuel rail pressure

Minimum fuel return line size

Minimum fuel supply line size

Maximum fuel pump supply

Maximum fuel inlet temperature

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	6.2kpa
-Clean element	3.7kpa

Lubrication system	
Engine oil pressure for engine	
protection devices:	
— Idle speed(Minimum)	103kPa
- Governed speed(Maximum)	241-345kPa
Maximum oil temperature	121 °C
Maximum oil consumption	0.24 L/H
Oil pan capacity-low/high	28.4/36.0 L

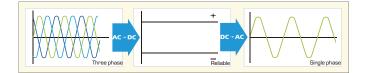
Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24V
Battery charging system,	
negative ground	35 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm
Minimum recommended battery	
capacity- cold soak	900 CCA

	General installation	Prime power
	Gross engine power output	231kw
	Piston speed	7.62 m/s
I	Friction horsepower	22 kW
	Engine water flow to engine	5 L/min
	Oil flow	2.2 I/sec
	Exhaust gas flow	650 l/sec
	Exhaust gas temperature	459 ℃
	Radiated heat to ambient	29 kW
	Heat rejection to coolant	173 kW
	Heat rejection to fuel	144 kW

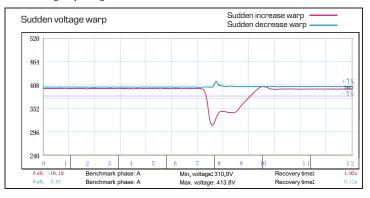


Alternator Specification

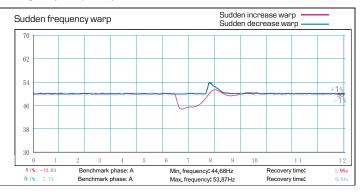
3 0.8 4 Star-serie
4 Star-serie
Star-serie
4.0
12
H class
2/3
IP23
Self-excited
Single bearing
cuum impregnation
A.V.R



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-heater Oil 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



AGG UK | AGG China | AGG USA | AGG UAE

info@aggpower.co.uk | www.aggpower.co.uk

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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, ± 1.6 mm
 - 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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