

Model: C358D5

Powered by CUMMINS



Generator Specification

Service	PRP ⁽¹⁾	ESP ⁽²⁾
Power (kVA)	325	358
Power (kW)	260	286
Rated speed (r.p.m)	1500	
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 Voltage (V)	ESP		PRP		Standby Amps
	KVA	KW	KVA	KW	
415/240	358	286	325	260	498.1
400/230	358	286	325	260	516.7
380/220	358	286	325	260	543.9

Performance Data		
Model	C358D5	
Engine brand	Cummins	
Engine model	6LTAA9.5G1	
Speed control type	Electronic	
Phase	3	
Control system	Digital	
Starter motor voltage	24V	
Frequency	50HZ	
Engine speed (RPM)	1500	
Fuel Consumption (L/H)	100% standby power	78
	100% prime power	70
	75% prime power	52
	50% prime power	35

Standard reference Conditions

Note: Standard reference condition 25°C[77°F] air inlet temp, 1000m(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)	2840mm	4365mm
Width (W)	1180mm	1450mm
Height (H)	1820mm	2255mm
Net Weight	2389KG	4074KG
Fuel Tank (L)	560	620

■ Engine Specification: 6LTAA9.5G1

Basic technical data

No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharger
Bore	116.5mm
Stroke	148mm
Displacement	9.5L
Approximate engine weight	822kg
Center of gravity from front face of block	427mm

Cooling system

Coolant capacity-engine	11.1L
Minimum operating block coolant temperature	70°C
Maximum top rank temperature for standby / prime power	104/100°C
Engine Coolant circuit thermostat opening temperature	82-95°C
Minimum fill rate	19L/min
Minimum coolant expansion space (% of system capacity)	6 %
Maximum pressure cap rating at sea level	276kPa

Fuel system

Maximum fuel drain restriction with clean fuel filter elements at maximum fuel flow	20kPa
Maximum fuel drain restriction	69kPa
Maximum fuel inlet temperature	70°C
Maximum design fuel flow	5.5L/min

Air intake system

Maximum intake air restriction with clean filter	3.7kpa
Maximum intake air restriction with dirty filter	6.2kpa
Minimum recommended air intake pipe inside diameter	100mm
Maximum temperature rise between ambient and turbo air inlet	15°C

Lubrication system

Oil pressure @ idle - minimum	69kPa
System capacity:	
High capacity:	27L
Low capacity:	19L
Total system capacity:	32.4L
Oil pressure @ governed speed	270kPa
Maximum allowable oil temperature	124°C

Electrical system

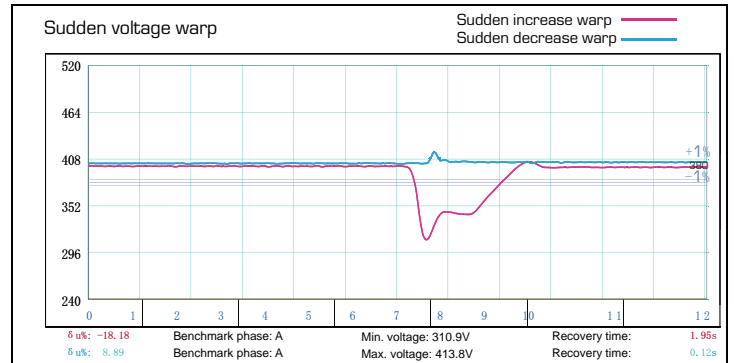
system voltage	24V
Minimum battery capacity-cold soak at -18 degree or above	750 CCA
Maximum starting circuit resistance	2 mΩ
Minimum ambient temperature for unaided cold start	-12°C
Typical cranking speed	150RPM

■ Alternator Specification

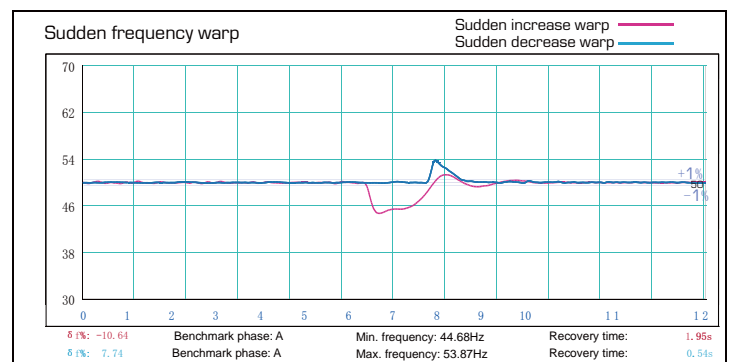
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



■ Options

Engine <ul style="list-style-type: none"> Water Jacket Pre-heater Fuel heater 	Alternator <ul style="list-style-type: none"> Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	Generator Sets <ul style="list-style-type: none"> Tools with the machine Extended range fuel tank Bunded fuel tank 	Fuel System <ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy <ul style="list-style-type: none"> Rental type Canopy Trailer 	Lub oil system <ul style="list-style-type: none"> Oil Pre-heater Oil temp sensor 	Cooling System <ul style="list-style-type: none"> Front heat protection 	Control Panel <ul style="list-style-type: none"> 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 °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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