

Model: C850D6

Powered by CUMMINS





Generator Specification

Service	PRP ₍₁₎	ESP ₍₂₎
Power (kVA)	775	850
Power (kW)	620	680
Rated speed (r.p.m)	18	00
Standard voltage (V)	440/	254V
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):

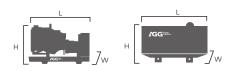
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PR	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
480/277	850	680	775	620	1022.4
440/254	850	680	775	620	1115.4
380/220	850	680	775	620	1291.5
220/127	850	680	775	620	2230.7
208/120	850	680	775	620	2359.4

Performand	ce Data	
Model		C850D6
En	igine brand	Cummins
En	igine model	KTA38-G
Spee	d control type	Electronic
	Phase	3
Control system		Digital
Starter motor voltage		24V
Frequency		60HZ
Engine speed (RPM)		1800
	100% standby power	173
Fuel	100% prime power	154
Consumption	75% prime power	118
(L/H) 	50% prime power	84

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)	4315mm	6058mm
Width (W)	2020mm	2438mm
Height (H)	2235mm	2591mm
Net Weight	6868KG	12500KG
Fuel Tank (L)	-	1000



■ Engine Specification: KTA38-G

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	TBD
Bore	159mm
Stroke	159mm
Displacement	37.8L
Engine idle speed	TBD
Approximate engine weght	TBD

Cooling system	
Coolant capacity-engine	TBD
Maximum coolant friction	
head external to engine:	
-1800 rpm	TBD
-1500 rpm	TBD
Maximum static head of coolant	
above engine crank centerline	TBD
Standard Thermostat	
(Modulating) Range	TBD
Minimum Pressure Cap	TBD
Maximum Top Tank Temperature	
for Standby / Prime Power	TBD

Fuel system	
Injection system	Direct
Governor type	Electronic
Maximum restriction at lift pump	TBD
Maximum fuel inlet temperature	TBD
Total drain flow	
(constant for all loads)	TBD

Air intake system		
Maximum intake air restriction		
with heavy duty air cleaner:		
-Dirty element	TBD	
-Clean element	TBD	

Lubrication system	
Engine oil pressure for engine	
protection devices:	
— Idle speed(Minimum)	TBD
— Governed speed(Maximum)	TBD
Maximum oil temperature	TBD
Minimum required lube system	
capacity-sump plus filters	TBD

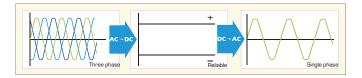
Electrical system		
Cranking motor (Heavy duty,		
positive engagement	24V	
Battery charging system,		
negative ground	TBD	
Maximum allowable resistance		
of cranking circuit	TBD	
Minimum recommended battery		
capacity- cold soak	TBD	

General installation	Prime power
Gross engine power output	TBD
Piston speed	TBD
Friction horsepower	TBD
Engine water flow to engine	TBD
Intake air flow	TBD
Exhaust gas flow	TBD
Exhaust gas temperature	TBD
Radiated heat to ambient	TBD
Heat rejection to coolant	TBD
Heat rejection to fuel	TBD

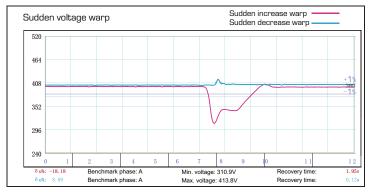


Alternator Specification

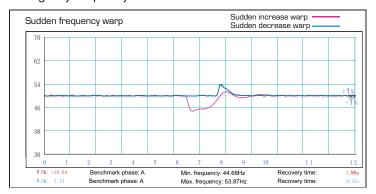
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating V	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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