

Model: C880E5

Powered by CUMMINS





Generator Specification

Service F		ESP(2)
Power (kVA)	800	880
Power (kW)	640	704
Rated speed (r.p.m)	1500)
Standard voltage (V)	400/23	BOV
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):

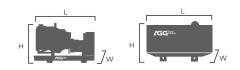
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PF	} ₽	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	880	704	800	640	1224.3
400/230	880	704	800	640	1270.2
380/220	880	804	800	640	1337.1

Performance Data			
Model		C880E5	
Er	ngine brand	Cummins	
Engine model		QSK23G3	
Spee	d control type	Ecm	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	178	
Fuel	100% prime power	161	
Consumption	75% prime power	121	
(L/H)	50% prime power	85	

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) REQ 5812mm Width (W) 2040mm REQ Height (H) REQ 25501mm Net Weight REQ Fuel Tank (L)

REQ



Engine Specification: QSK23G3

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	16.0:1
Bore	170mm
Stroke	170mm
Displacement	23.15L
Engine idle speed	750 RPM
Approximate engine weght	2805kg

Cooling system		
Coolant capacity-engine	46.5L	
Maximum coolant friction		
head external to engine:		
-1800 rpm	34 KPA	
-1500 rpm	48 kPA	
Maximum static head of coolant		
above engine crank centerline	18.3m	
Standard Thermostat		
(Modulating) Range	76.5-90 ℃	
Minimum Pressure Cap	69 KPA	
Maximum Top Tank Temperature		
for Standby / Prime Power	104/ 100℃	

Fuel system	
Injection system	Cummins HPI-PT
Governor type	ECM
Maximum Fuel Flow to Injection Pump	684L/H
Maximum fuel inlet temperature	70 ℃
Maximum Drain Flow	662L/H

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)	145kPa
- Governed speed(Maximum)	345-448kPa
Maximum oil temperature	120 ℃
Minimum required lube system	

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	1800 CCA

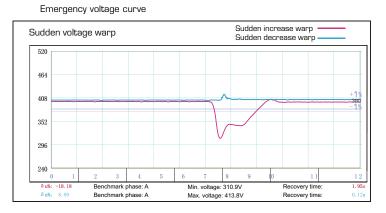
General installation	Standby power	
Gross engine power output	768kw	
Piston speed	8.6m/s	
Friction horsepower	72KW	
Engine water flow to engine	7.61/min	
Intake air flow	888L/S	
Exhaust gas flow	2463L/min	
Exhaust gas temperature	543 ℃	
Radiated heat to ambient	71KW	
Heat rejection to coolant	222KW	
Heat rejection to fuel	6.8KW	



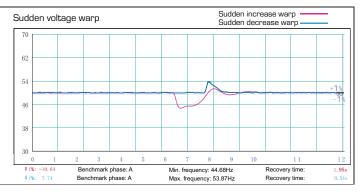
Alternator Specification

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-heaterFuel 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 Canopy Trailer 	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



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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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