• Model: C2063E5

Powered by CUMMINS





Generator Specification

Service	PRP ₍₁₎	ESP ₍₂₎
Power (kVA)	1875	2063
Power (kW)	1500	1650
Rated speed (r.p.m)	15	00
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):

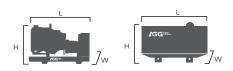
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers Voltage (V)	ES KVA	P KW	PR KVA	P KW	Standby Amps
415/240	2063	1650	1875	1500	2870.1
400/230	2063	1650	1875	1500	2977.8
380/220	2063	1650	1875	1500	3134.5

Performand	ce Data	
	Model	C2O63E5
En	igine brand	Cummins
En	igine model	QSK6OG3
Spee	d control type	ECM
Phase		3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	406
Fuel	100% prime power	363
Consumption	75% prime power	270
(L/H)	50% prime power	190

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)	REQ	12192mm	
Width (W)	REQ	2438mm	
Height (H)	REQ	2896mm	
Net Weight	REQ	/	
Fuel Tank (L)	REQ	/	



■ Engine Specification: QSK60G3

Basic technical data	
No. of cylinders	16
Cylinder arrangement	60° Vee
Cycle	4 stroke
Induction system	Turbocharger
Compression ratio	14.5:1
Bore	159mm
Stroke	190mm
Displacement	60.2L
Engine idle speed	700-900 RPM
Approximate engine weght	7185kg

Cooling system	
Coolant capacity-engine	157L
Maximum coolant friction	
head external to engine:	
-1800 rpm	/
-1500 rpm	48KPA
Maximum static head of coolant	
above engine crank centerline	18.3m
Standard Thermostat	
(Modulating) Range	82 -93℃
Minimum Pressure Cap	76 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	o 1515I/h
Maximum fuel inlet temperature	70° C
Maximum Drain Flow	1400I/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)	138kPa
— Governed speed(Maximum)	345-483kPa
Maximum oil temperature	121 ℃
Minimum required lube system	
capacity-sump plus filters	/

Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24V
Battery charging system,	
negative ground	40 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm
Minimum recommended battery	
capacity- cold soak	2200 CCA

General installation	Standby power
Gross engine power output	1790kw
Piston speed	9.5m/s
Friction horsepower	146KW
Engine water flow to engine	26.5L/S
Intake air flow	2255L/S
Exhaust gas flow	5525L/min
Exhaust gas temperature	440℃
Radiated heat to ambient	160KW
Heat rejection to Exhaust	1120KW
Heat rejection to fuel	35KW

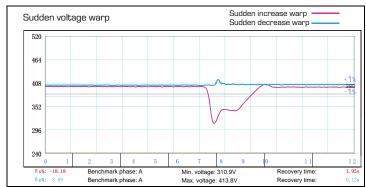


Alternator Specification

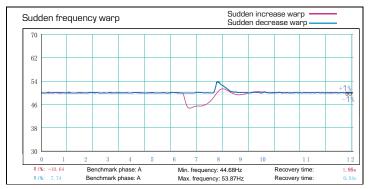
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



Emergency voltage curve



Emergency frequency curve



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 inputsBattery 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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