

• Model: C2500E5

Powered by CUMMINS





Generator Specification

Service	PRP ₍₁₎	ESP ₍₂₎
Power (kVA)	2000	2500
Power (kW)	1600	2000
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):

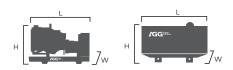
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PR	Р	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	2500	2000	2000	1600	3478.1
400/230	2500	2000	2000	1600	3608.5
380/220	2500	2000	2000	1600	3798.5

Performand		
	Model	C2500E5
Er	igine brand	Cummins
En	gine model	QSK6OG13
Spee	d control type	ECM
	Phase	3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	523
Fuel	100% prime power	399
Consumption	75% prime power	302
(L/H) 	50% prime power	210

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: QSK60G13

Basic technical data	
No. of cylinders	16
Cylinder arrangement	60° Vee
Cycle	4 stroke
Induction system	Turbocharged
Compression ratio	14.5:1
Bore	159mm
Stroke	190mm
Displacement	60.2L
Engine idle speed	700-900 RPM
Approximate engine weght	7920kg
	-

Cooling system	
Coolant capacity-engine	159L
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°C
Minimum Pressure Cap	76 KPA
Maximum Top Tank Temperature	
for Standby / Prime Power	104/100°C

Fuel system	
Injection system	Cummins MCRS
Governor type	ECM
Maximum restriction at lift pump	17/30 kPa
Maximum fuel inlet temperature	70°C
Typical Clean Fuel Filter Restriction	6. 7kPa

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°C
Oil Capacity with OP 9457 Oil Pa	n:
Low - High	231-261 L

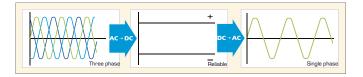
Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24V
Battery charging system,	
negative ground	55 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm
Minimum recommended battery	
capacity- cold soak	2200 CCA

General installation	Prime power
Gross engine power output	1727kw
Piston speed	9.5m/s
Friction horsepower	146KW
Engine water flow to engine	TBD
Intake air flow	2161I/s
Exhaust gas flow	5194L/min
Exhaust gas temperature	450°C
Radiated heat to ambient	161KW
Heat rejection to coolant	400KW
Heat rejection to fuel	TBD

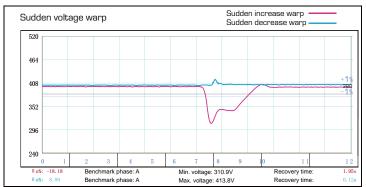


Alternator Specification

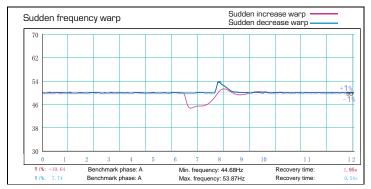
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible 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-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
- 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 lp65
- 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=4q
- 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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