

• Model: C2500E5

Powered by CUMMINS





Generator Specification

Service F	P RP (1)	ESP(2)
Power (kVA) 2	2000	2500
Power (kW) 1	600	2000
Rated speed (r.p.m)	1500	
Standard voltage (V)	400/23	ΟV
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):

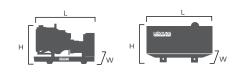
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PRI	Р	Standby
Voltage (V)	KVA	KW	KVA	кw	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

Performance Data			
Model		C2500E5	
Er	igine brand	Cummins	
En	gine model	QSK60G13	
Spee	d control type	ECM	
Phase		3	
Control system		Digital	
Starter motor voltage		24 V	
Frequency		50 HZ	
Engine speed (RPM)		1500	
	100% standby power	523	
Fuel Consumption (L/H)	100% prime power	399	
	75% prime power	302	
	50% prime power	210	

Standard reference Conditions

Note: Standard reference condition 25°C[77°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 Silent Open Length (L) REQ 12192mm Width (W) 2438mm REQ Height (H) 2896mm REQ 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	6.7 kPa

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	25 in H₂ O
-Clean element	15 in H₂ O

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

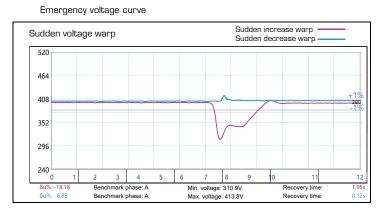
General installation	Prime power	
Gross engine power output	1727kw	
Piston speed	9.5m/s	
Friction horsepower	146KW	
Engine water flow to engine	TBD	
Intake air flow	21611/s	
Exhaust gas flow	5194L/min	
Exhaust gas temperature	450°C	
Radiated heat to ambient	161KW	
Heat rejection to coolant	400KW	
Heat rejection to fuel	TBD	



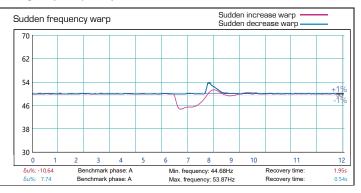
Alternator Specification

Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (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-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



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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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

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 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
 - Vibration : 5-25Hz, ±1.6mm 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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