■ Model: C2750E5

Powered by CUMMINS





Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	2500	2750
Power (kW)	2000	2200
Rated speed (r.p.m)	150	0
Standard voltage (V)	400/2	30V
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):

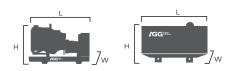
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	2750	2200	2500	2000	3825.9
400/230	2750	2200	2500	2000	3969.4
380/220	2750	2200	2500	2000	4178.3

Performand	ce Data	
	Model	C2750E5
Er	igine brand	Cummins
En	gine model	QSK78G18
Spee	d control type	ECM
	Phase	3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	532
Fuel	100% prime power	481
Consumption	75% prime power	375
(L/H) 	50% prime power	266

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: QSK78G18

Basic technical data		
No. of cylinders	18	
Cylinder arrangement	60° Vee	
Cycle	4	
Induction system Turbocharg	ed&Low Temperature After	— cooled
Compression ratio	15.5:1	_
Bore	170mm	
Stroke	190mm	
Displacement	77.6L	
Engine idle speed	700-900rpm	_
Approximate engine weght	9220kg	_

Cooling system	
Coolant capacity-engine	TBD
Maximum coolant friction	
head external to engine:	
-1800 rpm	/
-1500 rpm	48.3kPa
Maximum static head of coolant	
above engine crank centerline	18.3m
Standard Thermostat	
(Modulating) Range	82-93 ℃
Minimum Pressure Cap	75.8kPa
Maximum Top Tank Temperature	
for Standby / Prime Power	104/100℃

/
ECM
1893L/H
71℃
/

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	6.2kPa
-Clean element	3.7kPa

206.8kPa
414-482.6kPa
121℃
/

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

General installation	Prime power
Gross engine power output	2093kW
Piston speed	/
Friction horsepower	189kW
Engine water flow to engine	1984I/m
Intake air flow	2928I/s
Exhaust gas flow	65111/s
Exhaust gas temperature	412 ℃
Radiated heat to ambient	194kW
Heat rejection to coolant	/
Heat rejection to fuel	44kW
-	

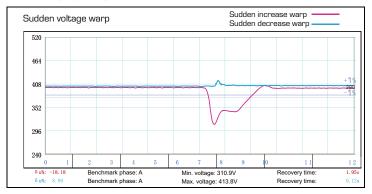


Alternator Specification

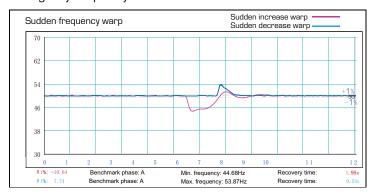
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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