

# • Model: C1375E5

Powered by CUMMINS





## Generator Specification

Service F	P <b>RP</b> (1)	ESP(2)
Power (kVA) 1	1250	1375
Power (kW) 1	1000	1100
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):

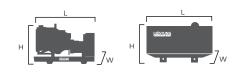
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	1375	1100	1250	1000	1913.0
400/230	1375	1100	1250	1000	1984.7
380/220	1375	1100	1250	1000	2089.2

Performance Data			
Model		C1375E5	
Er	igine brand	Cummins	
Er	igine model	QSK38G5	
Spee	d control type	Electronic	
Phase		3	
Control system		Digital	
Starter motor voltage		24 V	
Frequency		50 HZ	
Engine speed (RPM)		1500	
	100% standby power	301	
Fuel Consumption (L/H)	100% prime power	274	
	75% prime power	206	
	50% prime power	154	

#### 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	Open	Silent	
Length (L)	4985mm	12192mm	
Width (W)	2200mm	2438mm	
Height (H)	2500mm	2896mm	
Net Weight	10470 KG	20278 KG	
Fuel Tank (L)	-	-	

# Engine Specification: QSK38G5

Basic technical data	
No. of cylinders	12
Cylinder arrangement	V60°
Cycle	4 stroke
Aspiration	Turbocharged and Aftercooled
Compression ratio	15:1
Bore	159mm
Stroke	159mm
Displacement	37.7L
Engine idle speed	700-900 RPM
Approximate engine weg	nt 4100kg

Cooling system	
Coolant capacity-engine	11.1L
Coolant Capacity	
-Engine	106L
-Aftercoolers	22.7L
Minimum pressure cap rating at	
sea level	76 kPa
Maximum static head of coolant	
above crankshaft centerline	18.3 m

Air intake system	
Maximum intake air restriction	
with heavy duty air cleaner:	
-Dirty element	6.2kpa
-Clean element	3.7kpa
Lubrication system	
Engine oil pressure for engine	
protection devices:	
— Idle speed(Minimum )	138kPa
— Governed speed(Maximum )	344.7-482.6kPa

120 -140.1 deg C -

Total System Capacity (with		
Combo Filter)	170.3 L	
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	1800 °F CCA	

Oil Capacity with OP Oil Pan : Low-High

Fuel system	
Type Injection System	Cummins MCRS
Governor type	Electronic
Maximum fuel inlet temperature	71 deg C
Maximum supply fuel flow	700 L/hr
Maximum return fuel flow	375 L/hr

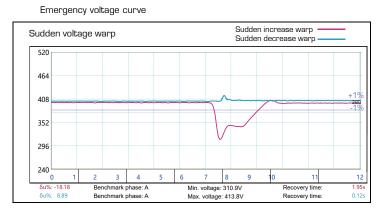
General installation	Prime power	
Gross engine power output	1,107kw	
Piston speed	7.9 m/s	
Friction horsepower	86 kW	
Intake air flow	1,524 l/sec	
Exhaust gas flow	3,741 l/sec	
Exhaust gas temperature	483 ℃	
Heat Rejection to Exhaust	824 kW	
Heat rejection to coolant	420 kW	
Heat rejection to fuel	6.7 kW	



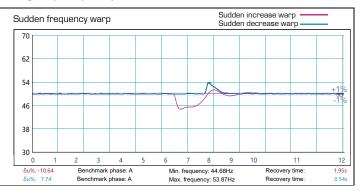
# Alternator Specification

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
<ul> <li>Water Jacket Pre-heater</li> <li>Fuel heater</li> </ul>	<ul> <li>Winding Temp measuring Instrument</li> <li>Alternator Pre-heater</li> <li>PMG</li> <li>Anti-damp and anti-corrosion treatment</li> <li>Anti-condensation heater</li> <li>Winding and bearing RTD</li> </ul>	<ul> <li>Tools with the machine</li> <li>Extended range fuel tank</li> <li>Bunded fuel tank</li> </ul>	<ul> <li>Low fuel level alarm</li> <li>Automatic fuel feeding system</li> <li>Fuel T-valves</li> </ul>
Canopy	Lub oil system	Cooling System	Control Panel
<ul><li>Rental type Canopy</li><li>Trailer</li></ul>	<ul><li>Oil Pre-heater</li><li>Oil temp sensor</li></ul>	<ul> <li>Front heat protection</li> </ul>	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>



## 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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