

• Model: C1450E6

Powered by CUMMINS





Generator Specification

Service	PRP ₍₁₎	ESP(2)
Power (kVA)	1200	1450
Power (kW)	960	1160
Rated speed (r.p.m)	180	00
Standard voltage (V)	440/	254V
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):

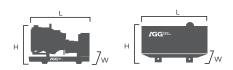
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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
480/277	1450	1160	1200	960	1744.1
440/254	1450	1160	1200	960	1902.7
380/220	1450	1160	1200	960	2203.1
220/127	1450	1160	1200	960	3805.4
208/120	1450	1160	1200	960	4024.9

Performand	ce Data	
Model		C1450E6
Er	ngine brand	Cummins
Er	igine model	QSKTA38G5
Spee	d control type	ECM
	Phase	3
Control system		Digital
Starter motor voltage		24V
Frequency		60HZ
Engine speed (RPM)		1800
	100% standby power	315
Fuel	100% prime power	262
Consumption	75% prime power	202
(L/H)	50% prime power	153

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)	4370mm	6058mm	
Width (W)	2010mm	2438mm	
Height (H)	2400mm	2896mm	
Net Weight	-	-	
Fuel Tank (L)	-	-	



■ Engine Specification: QSKTA38G5

12
60° Vee
4 stroke
Turbocharger
13.9:1
159mm
159mm
37.7L
TBD
TBD

Cooling system	
Coolant capacity-engine	124L
Maximum coolant friction	
head external to engine:	
-1800 rpm	/
-1500 rpm	/
Maximum static head of coolant	
above engine crank centerline	/
Standard Thermostat	
(Modulating) Range	/
Minimum Pressure Cap	/
Maximum Top Tank Temperature	,
for Standby / Prime Power	/

Fuel system	
Injection system	Cummins PT
Governor type	ECM
Maximum restriction at lift pump	/
Maximum fuel inlet temperature	/
Total drain flow	
(constant for all loads)	/

Air intake system		
Maximum intake air restriction		
with heavy duty air cleaner:		
-Dirty element	/	
-Clean element	/	

/	
/	
/	
/	
	/ /

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

General installation	Prime power
Gross engine power output	/
Piston speed	/
Friction horsepower	/
Engine water flow to engine	/
Intake air flow	/
Exhaust gas flow	/
Exhaust gas temperature	/
Radiated heat to ambient	/
Heat rejection to coolant	/
Heat rejection to fuel	/

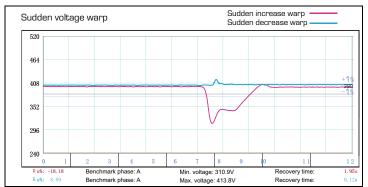


Alternator Specification

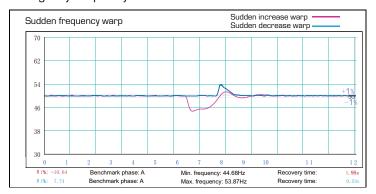
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



Follow us @ AGGPOWER

AGG UK | AGG China | AGG USA | AGG UAE info@aggpower.co.uk | www.aggpower.co.uk



in Follow us @linkedin.com/company/agg-power

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

Distributed by

Publication No. GYHO518N, ISSUE 1 @ AGG UK