

CU500E6

Industrial Range Powered By Cummins

AGG Power Solutions



Standards : 2006/42/EC Machinery safety, 2006/95/EC Low voltage, EN 60204-1 : 2006+A1 : 2009, EN ISO 12100 : 2010, EN ISO 8528-13: 2016, EN ISO 13849-1: 2015, EN 60204-1: 2018

PRP: Prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

ESP: The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

Conditions: According to the standard, the nominal power assigned by the genset is given for 25° C air inlet temperature, of a barometric pressure of 100 kPa (100 m A.S.L), and 30 % relative humidity.

GENERATOR SPECIFICATION

ITEMS	PRP	EPS
Power	450kVA	500kVA
Power	360kW	400kW
Frequency / Phase / Power factor	60Hz / 3P / PF0.8	
Standard voltage	220/127V	
Available voltage	240/138V	



Water-cooled



Three Phase



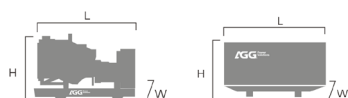
60Hz



Diesel

GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	3100*1205*2100	4008*1410*2306
Weight(kg)	2865	3216
Fuel tank(L)	700	850
Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A)	TBA TBA	



NOTE: Weights and dimensions based on standard products. According to 2000/14/CE, sound data is provided at 7m for 75% prime power. For actual installation, please contact the manufacturer.

PERFORMANCE DATA

Engine brand	CUMMINS	
Engine model	QSG12-G4	
Fuel	Diesel	
Aspiration	Turbocharged and Charge Air Cooled	
Cooling	Water-cooled	
Governor	ECM	
Cyl arrangement	6L	
Application	Prime & Standby	
Fuel consumption	100% ESP(L/H)	107
	100% PRP(L/H)	96
	75% PRP(L/H)	69
	50% PRP(L/H)	47

ENGINE SPECIFICATION

BASIC DATA	
Engine brand	CUMMINS
Engine model	QSG12-G4
Displacement	11.8L
No. of cyl / arrangement	6L
Bore x stroke	132x144mm
Compression ratio	17.0 : 1
Engine speed	1800rpm
Engine type	4-stroke diesel

EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	533 °C
Exhaust gas flow rate (max.)	1274 L/S
Exhaust system backpressure (maximum allowable)	10 kPa

FUEL SYSTEM	
Maximum restriction at lift pump	40.6 kPa
Max. fuel flow	182 L/H

COOLING SYSTEM	
Radiator air flow	8.4 m³/s
Total oil capacity	34.1L
Total coolant capacity	48L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x120Ah(850CCA)
Battery charging alternator	DC24V/TBA

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.2 kPa
Combustion air inlet flow rate	518 L/S
Max. allowable combustion air inlet temp	50°C

ALTERNATOR SPECIFICATION

BASIC DATA		BASIC DATA	
Insulation & temperature rise	Class H/H	Type	Brushless
Excitation type	Self-excited	No. of bearings	Single bearing
Winding leads	12	Coupling system	Flexible disc
Winding connections (standard)	Star	Maximum over speed	2250 RPM
Winding pitch	Two thirds	Coating type	Vacuum impregnation
Number of phase	Three phase	IP rating	IP23

CONTROL SYSTEM

Key features

Single generator set controller can be used in prime or standby scenarios



Manual and remote start, MRS application



Auto mains failure, AMF application



Genset power/frequency/factor /voltage/current detection



Engine / alternator / generator protections, emergency stop



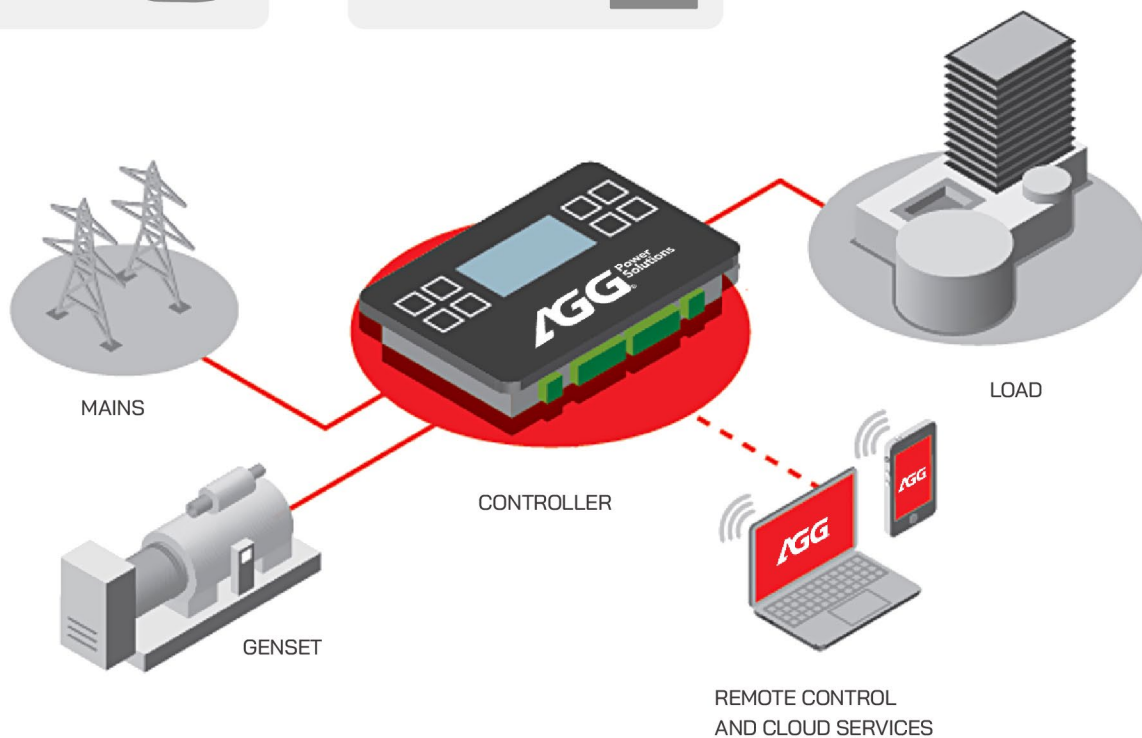
Event log / running hours history / maintenance warning, LCD screen



User access management, software and tools are easy to use



Input or output configuration, USB communication port



GENSET VERSION

STANDARD FEATURES

- ♦ Diesel engine, 50 degrees radiator, brushless alternator
- ♦ Intelligent controller
- ♦ Output circuit breaker (up to 1250A)
- ♦ Maintenance-free start battery, battery charge, battery switch
- ♦ Steel industrial silencer, exhaust bellows and elbows
- ♦ Steel chassis and anti-vibration shock absorbers
- ♦ Lifting and moving structure, expansion of oil and coolant discharge
- ♦ Moving parts protection, hot parts protection
- ♦ Special toolbox, delivery attached documentation



OPTIONAL FEATURES

ENGINE

- ♦ Water jacket preheater
- ♦ Oil Preheater, oil level maintainer, oil manual pump
- ♦ Heavy air filtration
- ♦ Residential silencer
- ♦ Remote radiator, heat exchanger

ALTERNATOR

- ♦ PMG/AREP excitation system
- ♦ Anti-condensation heater
- ♦ Winding/bearing RTD
- ♦ Double bearing structure
- ♦ IP44 protection class

CONTROL SYSTEM




- ♦ Synchronizing panel, remote control panel
- ♦ RS232/485, 4G & GPS wireless, ethernet communication card
- ♦ Additional digital/analog input/output
- ♦ Monitoring software, mobile APP
- ♦ Ni-Cad batteries

GENERATING SET

- ♦ External fuel tank, automatic fuel feeding
- ♦ ATS/output /combining/distribution cabinet
- ♦ Load test cabinet
- ♦ Mobile trailer
- ♦ Customized design

Tel: +86 591 86396829
Email: info@aggpower.com

Fax: +86 591 8639 6929
Web: www.aggpower.co.uk

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