CU438G5-NG

Industrial Range Powered By Cummins



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, ENISO 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.

COP: The continuous power rating is applicable for suppling utility power in a constant load applications in accordance with ISO 8528. 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.

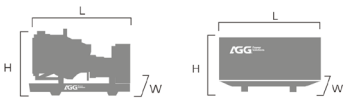
GENERATOR SPECIFICATION

ITEMS	COP
Power	438kVA
Power	350kW
Frequency / Phase / Power factor	50Hz / 3P / PF0.8
Standard voltage	400/230V
Available voltage	380/220V · 415/240V

Water-cooled | Three Phase | 50Hz | Gas

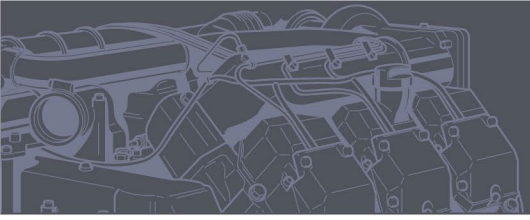
GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	4800*2150*2250	5612*2190*2525
Weight(kg)	5000	7500
Fuel tank(L)	N/A	N/A
Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A)		 — —



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		K19N-G3P
Fuel		Gas
Aspiration		Turbocharged and Aftercooled
Cooling		Water-cooled
Governor		ECU
Cyl arrangement		6L
Application		Continuous
Fuel consumption	100% COP(MJ/H)	4031
	75% COP(MJ/H)	3206
	50% COP(MJ/H)	2319



ENGINE SPECIFICATION

BASIC DATA	
Engine brand	CUMMINS
Engine model	K19N-G3P
Displacement	19L
No. of cyl / arrangement	6L
Bore x stroke	159x159mm
Compression ratio	10:1
Engine speed	1500rpm
Engine type	4-stroke Gas

EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	501°C
Exhaust gas flow rate (max.)	1100 L/s
Exhaust system backpressure (maximum allowable)	10 kPa

FUEL SYSTEM	
Maximum inlet pressure	10~30 kPa
Acceptable Fuel	Pipeline Quality Natural Gas
Minimum Fuel Methane Number	80 MN
Minimum Fuel Energy Content	33 MJ/m³

COOLING SYSTEM	
Radiator air flow	TBA m³/min
Total oil capacity	84.4L
Total coolant capacity	120L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x60Ah(720CCA)
Battery charging alternator	DC24V/TBA

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.2kPa
Combustion air inlet flow rate	339 L/S
Max. allowable combustion air inlet temp	50°C

NOTE：using dry processed gas natural gas fuel with 905 BTU/CUFT per standard cubic foot lower heating value.

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 controllercan be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

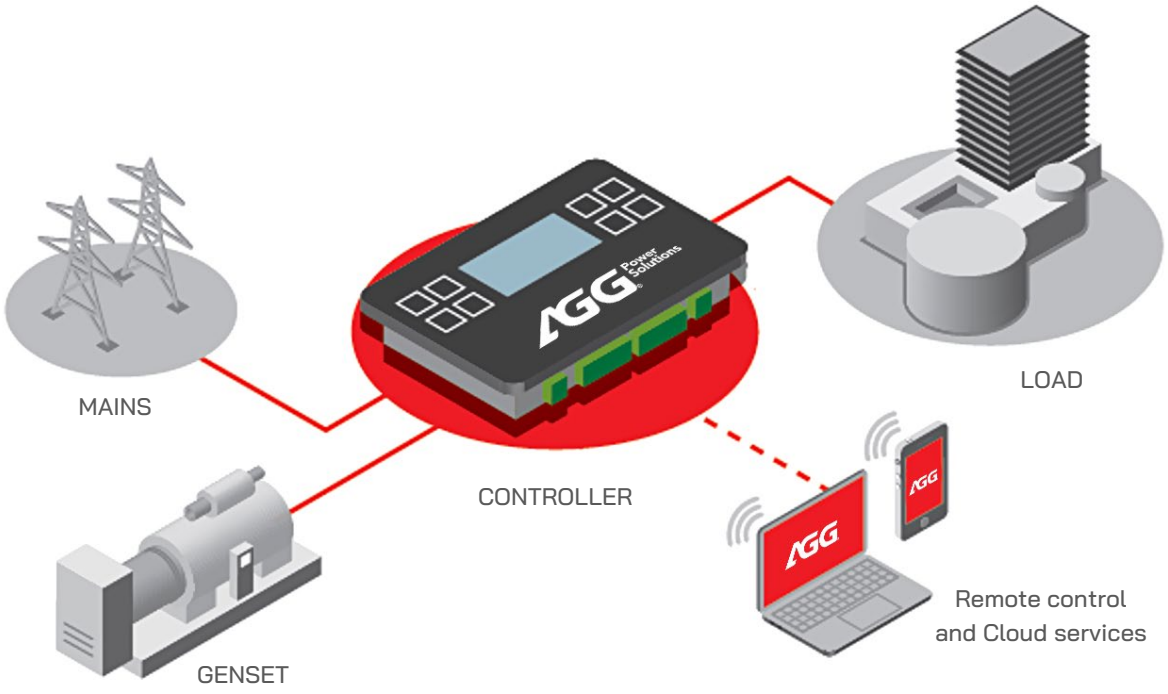
Genset power / frequency / factor / voltage / current detection

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

- Gas engine，50 degrees radiator, brushless alternator
- Intelligent controller
- Output circuit breaker (up to1250A)
- Maintenance-free start battery, battery charge, battery switch
- Steel industrial silencer, exhaust bellows and elbows
- Steel chasis 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	◆ Waste heat recovery ◆ ATS / output / combining / distribution cabinet ◆ Load test cabinet ◆ Mobile trailer ◆ Customized design

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