

CU44D5A

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, 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 8528-1.

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.

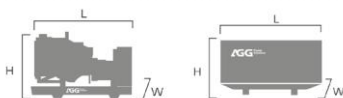
GENERATOR SPECIFICATION

| ITEMS | PRP | EPS |
|----------------------------------|---------------------|-------|
| Power | 40kVA | 44kVA |
| Power | 32kW | 35kW |
| Frequency / Phase / Power factor | 50Hz / 3P / PF0.8 | |
| Standard voltage | 400/230V | |
| Available voltage | 380/220V · 415/240V | |



GENERAL INSTALLATION

| ITEMS | OPEN | SILENT |
|----------------------|---------------|---------------|
| Dimension(L*W*H)(mm) | 1800*935*1470 | 2298*954*1250 |
| Weight(kg) | 830 | 1100 |
| Fuel tank(L) | 195 | 90 |
| Sound pressure level | | |
| @75% load&1m dB(A) | | TBA |
| @75% load&7m dB(A) | | 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 | 4BT3.9-G2 | |
| Fuel | Diesel | |
| Aspiration | Turbo-charging | |
| Cooling | Water-cooled | |
| Governor | Electronic | |
| Cyl arrangement | 4L | |
| Application | Prime & Standby | |
| Fuel consumption | 100% ESP(L/H) | 10.3 |
| | 100% PRP(L/H) | 9.3 |
| | 75% PRP(L/H) | 7.3 |
| | 50% PRP(L/H) | 5.3 |

ENGINE SPECIFICATION

BASIC DATA

| | |
|--------------------------|-----------------|
| Engine brand | CUMMINS |
| Engine model | 4BT3.9-G2 |
| Displacement | 3.9L |
| No. of cyl / arrangement | 4L |
| Bore x stroke | 102x120mm |
| Compression ratio | 18.0 : 1 |
| Engine speed | 1500rpm |
| Engine type | 4-stroke diesel |

EXHAUST SYSTEM

| | |
|---|---------|
| Exhaust stack gas temperature (max.) | 487°C |
| Exhaust gas flow rate (max.) | 108 L/S |
| Exhaust system backpressure (maximum allowable) | 10 kPa |

FUEL SYSTEM

| | |
|----------------------------------|----------|
| Maximum restriction at lift pump | 13.6 kPa |
| Max. fuel flow | 30 L/H |

COOLING SYSTEM

| | |
|------------------------|------------------------|
| Radiator air flow | 84 m ³ /min |
| Total oil capacity | 10.9L |
| Total coolant capacity | 19 L |

ELECTRICAL SYSTEM

| | |
|-----------------------------|----------------|
| Starter motor rated voltage | DC24V |
| Start battery | 2x60Ah(580CCA) |
| Battery charging alternator | DC24V/40A |

INLET AIR

| | |
|--|----------|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 6.2kPa |
| Combustion air inlet flow rate | 44.9 L/S |
| Max. allowable combustion air inlet temp | 50°C |

ALTERNATOR SPECIFICATION

BASIC DATA









| | |
|--------------------------------|--------------|
| Insulation & temperature rise | Class H/H |
| Excitation type | Self-excited |
| Winding leads | 12 |
| Winding connections (standard) | Star |
| Winding pitch | Two thirds |
| Number of phase | Three phase |

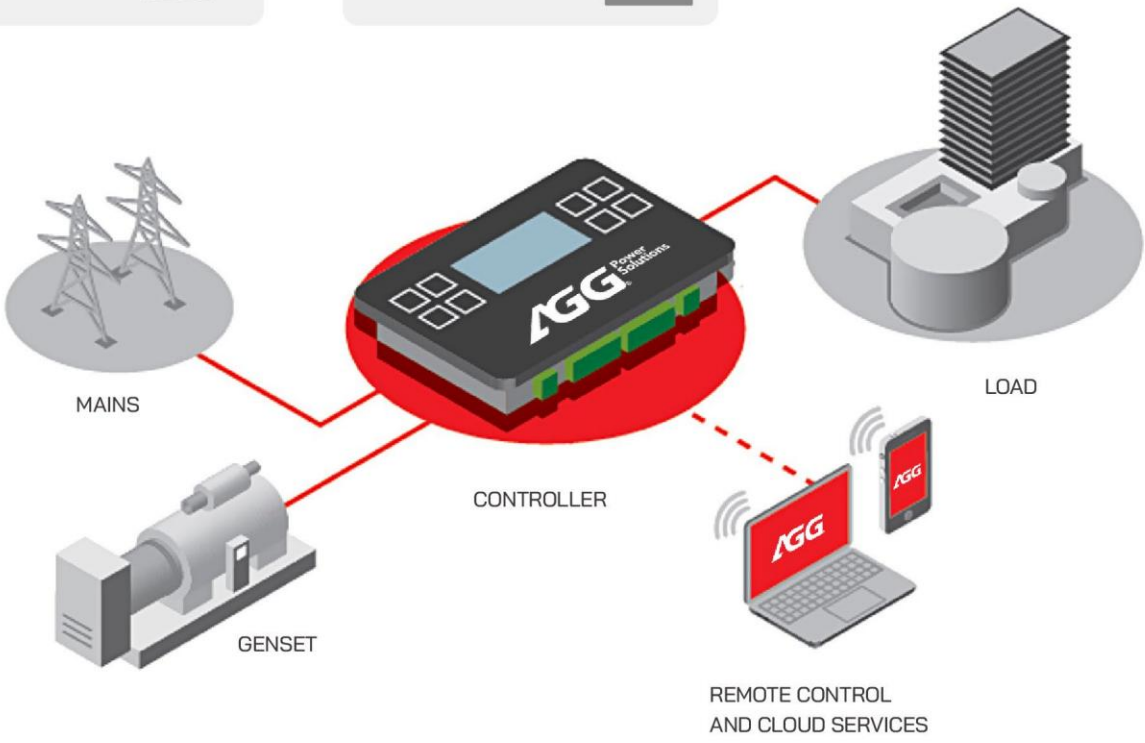
BASIC DATA

| | |
|--------------------|---------------------|
| Type | Brushless |
| No. of bearings | Single bearing |
| Coupling system | Flexible disc |
| Maximum over speed | 2250 RPM |
| Coating type | Vacuum impregnation |
| IP rating | IP23 |

CONTROL SYSTEM

Key features

| | | |
|--|---|---|
| <p>Single generator set control- can be used in prime or standby scenarios</p>  | <p>Manual and remote start, MRS application</p>  | <p>Auto mains failure, AMF application</p>  |
| <p>Genset power/frequency/factor /voltage/current detection</p>  | <p>Engine / alternator / generator protections, emergency stop</p>  | <p>Event log / running hours history / maintenance warning, LCD screen</p>  |
| <p>User access management, software and tools are easy to use</p>  | <p>Input or output configuration, USB communication port</p>  | |



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 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

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

Tel: +86 591 86396829 Fax: +86 591 8639 6929
Email: info@aggpower.com Web: www.aggpower.co.uk

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