

# CU1563D6

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                            | 1418kVA           | 1563kVA |
| Power                            | 1134kW            | 1250kW  |
| Frequency / Phase / Power factor | 60Hz / 3P / PF0.8 |         |
| Standard voltage                 | 440/254V          |         |
| Available voltage                | 480/277V          |         |



## GENERAL INSTALLATION

| ITEMS                | OPEN           | SILENT         |
|----------------------|----------------|----------------|
| Dimension(L*W*H)(mm) | 4995*2130*2250 | 6058*2438*2591 |
| Weight(kg)           | 10000          | 1500           |
| Fuel tank(L)         | N/A            | 1000           |
| 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     | KTA50-G3                     |     |
| Fuel             | Diesel                       |     |
| Aspiration       | Turbocharged and Aftercooled |     |
| Cooling          | Water-cooled                 |     |
| Governor         | Electronic                   |     |
| Cyl arrangement  | 16V                          |     |
| Application      | Prime & Standby              |     |
| Fuel consumption | 100% ESP(L/H)                | 330 |
|                  | 100% PRP(L/H)                | 291 |
|                  | 75% PRP(L/H)                 | 222 |
|                  | 50% PRP(L/H)                 | 157 |

## ENGINE SPECIFICATION

### BASIC DATA

|                          |                 |
|--------------------------|-----------------|
| Engine brand             | CUMMINS         |
| Engine model             | KTA50-G3        |
| Displacement             | 50.3L           |
| No. of cyl / arrangement | 16V             |
| Bore x stroke            | 159x159mm       |
| Compression ratio        | 13.9 : 1        |
| Engine speed             | 1800rpm         |
| Engine type              | 4-stroke diesel |

### EXHAUST SYSTEM

|   |          |
|---|----------|
| Exhaust stack gas temperature (max. )           | 475 °C   |
| Exhaust gas flow rate (max. )                   | 4295 L/S |
| Exhaust system backpressure (maximum allowable) | 7 kPa    |

### FUEL SYSTEM

|                                  |         |
|----------------------------------|---------|
| Maximum restriction at lift pump | 27 kPa  |
| Max. fuel flow                   | 625 L/H |

### COOLING SYSTEM

|                        |                      |
|------------------------|----------------------|
| Radiator air flow      | 32 m <sup>3</sup> /s |
| Total oil capacity     | 177 L                |
| Total coolant capacity | 425 L                |

### ELECTRICAL SYSTEM

|                             |                 |
|-----------------------------|-----------------|
| Starter motor rated voltage | DC24V           |
| Start battery               | 4x120Ah(850CCA) |
| Battery charging alternator | DC24V/35A       |

### INLET AIR

|  |          |
|--|----------|
| Air filter                               | Dry type |
| Max. combustion air Intake restriction   | 6.2 kPa  |
| Combustion air inlet flow rate           | 1840 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                  | 6            |
| Winding connections (standard) | Star         |
| Winding pitch                  | Two thirds   |
| Number of phase                | Three phase  |

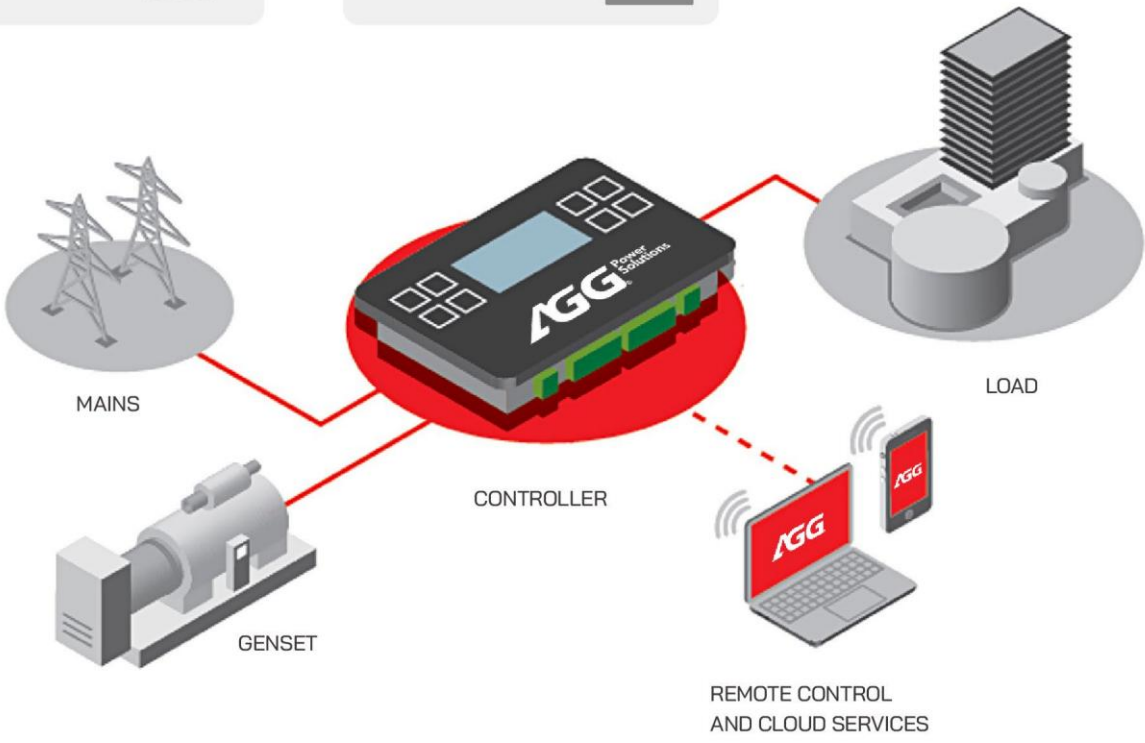
### BASIC DATA

|                    |                     |
|--------------------|---------------------|
| 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

- 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 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

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