

# CU33D5

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                            | 30kVA               | 33kVA |
| Power                            | 24kW                | 26kW  |
| 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)           | 820           | 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-G1       |      |
| Fuel             | Diesel          |      |
| Aspiration       | Turbo-charging  |      |
| Cooling          | Water-cooled    |      |
| Governor         | Mechanical      |      |
| Cyl arrangement  | 4L              |      |
| Application      | Prime & Standby |      |
| Fuel consumption | 100% ESP(L/H)   | 11.1 |
|                  | 100% PRP(L/H)   | 10.0 |
|                  | 75% PRP(L/H)    | 7.9  |
|                  | 50% PRP(L/H)    | 5.9  |

## ENGINE SPECIFICATION

### BASIC DATA

|                          |                 |
|--------------------------|-----------------|
| Engine brand             | CUMMINS         |
| Engine model             | 4BT3.9-G1       |
| Displacement             | 3.9L            |
| No. of cyl / arrangement | 4L              |
| Bore x stroke            | 102x120mm       |
| Compression ratio        | 17.3 : 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 | 102 mmHg |
| Max. fuel flow                   | 30 L/H   |

### COOLING SYSTEM

|                        |                        |
|------------------------|------------------------|
| Radiator air flow      | 84 m <sup>3</sup> /min |
| Total oil capacity     | 10.9L                  |
| Total coolant capacity | 18 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   | 6.0kPa   |
| Combustion air inlet flow rate           | 45 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-<br/>ler can be used in prime or<br/>standby scenarios</p>  | <p>Manual and remote start,<br/>MRS application</p>                            | <p>Auto mains failure, AMF<br/>application</p>                                       |
| <p>Genset power/frequency/fac-<br/>tor /voltage/current detection</p>                      | <p>Engine / alternator / genera-<br/>tor protections, emergency<br/>stop</p>  | <p>Event log / running hours<br/>history / maintenance<br/>warning, LCD screen</p>  |
| <p>User access management,<br/>software and tools are easy<br/>to use</p>                 | <p>Input or output configuration,<br/>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

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