# CUMMINS RSC275

**1500 d/dak.50 Hz.**

**231/400 VAC**

**Standby Power (ESP)**
Standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable ofdelivering in theevent of a utility power outage orunder test conditions for up to 500 hours of operation per year under average of 70% load.Overloading is not permissible

**Prime Power (PRP)**
Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hours.

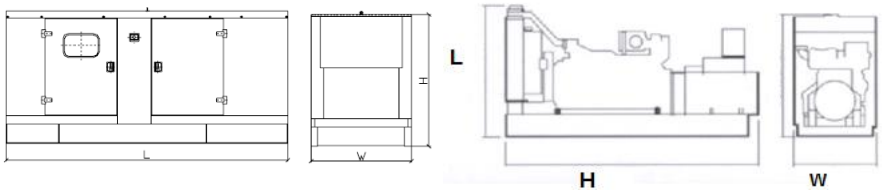
| Power Output Ratings | | 50 Hz. / 400 V |
|---|---|---|
| Standby Power (ESP) | kVA | 275 |
| | kW | 220 |
| Prime Power (PRP) | kVA | 250 |
| | kW | 200 |

| Engine | | |
|---|---|---|
| Manufacturer | | CUMMINS |
| Model | | 6LTAA8.9-G2 |
| No of Cylinder / Configuration | | 6 IN-LINE |
| Displacement lt | lt | 14 |
| Bore / Stroke | mm | 114x144 |
| Compression Ratio | | 17:01 |
| Aspiration | | Turbo charged and Charge Air Cooled |
| Governor Type | | ELECTRONIC |
| Cooling System | | WATER |
| Coolant Capacity | lt | 35 |
| Lubrication Oil Capacity | lt | 24 |
| Electrical System | VDC | 24 |
| Speed / Frequency | rpm | 1500 rpm / 50 Hz |
| Engine Prime Power (with fan) | kWm | 243 |
| Fuel Consumption | 100% | 54,3 |
| Radiator Cooling Air | m³/min | 475 |
| Air Intake-Engine | m³/min | 20 |
| Exhaust Gas Flow | m³/min | 32 |
| Exhaust Gas Temparature | °C | 585 |

| Alternator | | |
|---|---|---|
| Manufacturer | | ENGGA |
| Model | | |
| Power Factor | | 0,8 |
| No of Bearing | | SINGLE |
| No of Poles | | 4 |
| No of Leads | | 12 |
| Voltage Regulation ( Steady State) | | ± %0,5 |
| Insulation | | H |
| Degree of Protection | | IP23 |
| Excitation System | | AVR, BRUSHLESS |
| Connection Type | | STAR |
| Total Harmonic Content (No Load) | | < %2 |
| Frequency | Hz | 50 |
| Voltage Output | VAC | 231/400 |

Technical information and values are according to ISO8528, ISO3046,NEMA MG1.22, IEC 600341, BS 49995000, VDE 0530 standards. Producing with ISO9001, CE standards.

| DIMENSION | L x W x H (mm) | Weight (kg) | Fuel Tank (lt) |
|---|---|---|---|
| Canopied | 4000 x 1210 x 2000 | 2970 | 420 |
| Open Skid | 2900x 1150 x 1850 | 2250 | 420 |




All information given in this leaflet is intended for general purposes only. Due to a policy continuous improvement REAL reserves the right to amend details and specifications without notice and all information given is subject to the REAL's current condition of sales.

CE TSE ISO 9001:2000

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1500 d/dak.50 Hz.

231/400 VAC

## DESIGN SPECIFICATIONS

High quality, reliable and complate power unit,Compact design,Easy start and maintenance possibility,Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing,Full engineered with a wide range of options and accessories:Canopy,soundproof and on road trailer

## STANDARD GENSET SPECIFICATIONS

### ENGINE

CUMMINS heavy duty diesel engine,Four cycle, water cooled, turbo charged and after cooled,Electronic Governor Control System,Direct injection fuel,4 valves per cylindersystem,Replaceable wet type cylinder liners,24 V D.C. starter and charge alternator,Replaceable fuel filter ,oil filter and dry element air filter,Cooling radiator and fan,Starter battery(with lead acid) including Rack and Cables,Flexible fuel connection hoses and manual oil sump drain pump,Industrial capacity exhaust silencer and steel bellows,Jacket water heater (at automatic models),Operation manuals and circuit diagram documents

### ALTERNATOR

Brushless, single bearing system, 4 poles,Insulation class H,Standard degree of protection IP21 or IP23,Self-exciting and self-regulating,Stator winding with 2/3 pitch,Impregnation with tropicalised epoxy varnish,Solid state Automatic Voltage Regulator

### BASE FRAME

The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame.Base frame design incorporates an integral fuel tank.The generating set can be lifted or carefully pushed / pulled by the base frame,Lifting eyes allow easy transportation by a crain

### CANOPY

All canopy parts are designed with modular principles
Without welding assembly
All metal canopy parts are painted by electrostatic polyester powder paint
Exhaust silencer is protected against environment influences
Thermally insulated engine exhaust system
Emergency stop push button is installed outside of canopy
To enable for lifting easy mainteneance and operation

### CONTROL SYSTEM

**Panel Equipments;**

Control, supervision and protection panel is mounted on the genset base frame.
The control panel is equipped as follows:

**1-Auto. Mains Failure Control Panel**

Control Panel Equipments:
Conrtol panel with DKG 309 module
Static battery charger
Emergency stop push button

**1.1 Generating Set control module DKG 309 features:**
The module is used to monitor a mains supply and automatic start a stand-by generating set.
Micro-processor based design
Monitors engine performance and AC power output
LED and LCD alarm indication
Front panel configuration of timers and alarm trip points
provides signal to change over switch panel
event logging of shutdown alarms
Remote communication via RS232 port or RS485 modbus output
easy push button control
STOP/RESET-MANUAL-AUTO-TEST-START
Operation indicators accesed by the LCD display scroll push button.

**Metering via LCD Display:**

Generator Volts (L-L/L-N)
Generator Amps (L1-L2-L3)
Generator Frequency (Hz)
Engine hours run
Engine oil pressure (PSI&Bar)
Engine speed RPM
Engine temperature (C & F)
Generator kVA
Generator kW
Generator power factor
Mains Frequency (Hz)
Mains Volts (F-F/F-N)
Plant battery volts


**Automatic shutdown on fault conditions**

Under/Over Speed
High Engine Temperature
Low Oil Pressure
Under/over generator volts
Under/over generator frequency
under/over mains frequency
under/over mains voltage
Low/High battery volts
Fail to start
Fail to stop
Charge fail
Over current
Emergency stop
CAN data fail
CAN ECU fail

**LED indications**

Mains available
Generator available
Mains on load
Generator on Load

**2. Power Outlet Terminal Board Mounted on the Genset Baseframe**

CE TSE **ISO 9001:2000**