BENZEN POWER GENERATION

Powered by Cummins

# DIESEL GENERATOR SET

**Model: CDS-290KT**

**Rate Power: 263kVA/ 50Hz/ 3 phases**

## Applications:

Home, Buildings, Hospitals, Train station, Bank, Telecom, Mining, Military, Outdoor projects, etc.

**Color choices:**

## Features and Benefits

- Tightly structure, excellent design and craft
- Excellent cooling system, reliable performance under the harshest conditions (ambient temperature up to 40°C and altitudes up to 1000m)
- Self-diagnostic capability simplifies troubleshooting
- LCD display shows system status setup information
- Automatic voltage regulator protects your sensitive electronics from harmonic distortion and unstable power quality
- Soundproof type: Very quite running: 70±3dB(A) at 23ft(7m) at normal load.
- Enclosed muffler for added quietness
- Service and; maintenance accessible through easy-latch side service door

## Generator Data

| | |
|---|---|
| Prime Power (kVA) | 263 |
| Standby Power (kVA) | 289 |
| Rated Frequency (Hz) | 50 |
| Running Noise db(A)/7m (Silent type) | 70±3 |
| Battery capacity (V-Ah) | 24V |
| Open Type-Dimension (LxWxH) (mm) | / |
| Open Type-Weight (kg) | / |
| Silent Type-Dimension (LxWxH) (mm) | 3600*1250*1900 |
| Silent Type-Weight (kg) | 2600 |
| Fuel Tank Capacity (L) | Running in 6 hours for full load |
| Continuous Running Time (hr.) | 6 |

# Engine Specifications

## Main features:

**Brand: Cummins**

- 6-cylinder, water-cooled, in-line diesel engine.
- Efficient fuel system for max power output and durability.
- Large-capacity air cleaner.
- Cost effective, fuel efficient and reliable performance.
- Functional engine with compact structure.
- Excellent after-sales service and sufficient spare parts supplying.
- Easy installation and ready access for routine maintenance

| | |
|---|---|
| Model | 6LTAA8.9-G3 |
| Output Power (kw) | 230 |
| Cylinder No. & Config. | 6, In-line |
| Type | 4 cycle , Diesel |
| Displacement (liters) | 8.9 |
| Governor | Electric type |
| Engine System (r/min) | 1500 |
| Air intake system | Turbo, Inter-cooled |
| Fuel Consumption (L/h) | 41 |
| Oil Capacity (L) | 27.6 |
| Compression ratio | 16.6:1 |

# Alternator specifications

## Main Features:

- Advanced automatic voltage regulator (AVR) control for trouble-free operation under the most demanding conditions.
- 2/3 pitch winding as standard, to avoid excessive neutral current.
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings.
- Easy access for installation and maintenance.
- IP23 as standard.
- Self-excited control system.

Resist of corruption of oil and acid.

| Brand options: | Benzen |
|---|---|
| Model | / |
| Rated Power (kVA) | 263 |
| Excitation System | Brushless, self-exciting |
| Connection Type | 3 phases, 4 wires |
| Pole No | 4 |
| Regulator type | AVR |
| Protection class | IP23 |
| Insulation class | H |

# Control Panel System

## Options:

DEEP SEA

DATAKOM

COMAP

## Main Features:

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Security password-protected programming levels
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation

## Precision measure and display of:

- ✔ Generator voltage
- ✔ Generator current
- ✔ Generator frequency
- ✔ Generator active power (kW)
- ✔ Generator inactive power (kW)
- ✔ Generator apparent power (kVA)
- ✔ Generator power factor
- ✔ Generator starts count
- ✔ Generator hour count
- ✔ Cumulate electric energy (kWh)
- ✔ Generator temperature
- ✔ Generator pressure
- ✔ Start battery voltage

## Protection:

- ✔ Emergency stop
- ✔ High water temperature
- ✔ Low oil pressure
- ✔ Over speed
- ✔ Under speed
- ✔ Loss of speed signal
- ✔ Generator over frequency
- ✔ Generator under frequency
- ✔ Generator over voltage
- ✔ Generator under voltage
- ✔ Generator over current
- ✔ Fail to start
- ✔ Auxiliary inputs

BENZEN POWER

* *Reserves the right to change the specifications and designs without notice.*