

Cummins Series Diesel Generator Set/50Hz 50KVA



Features

- » Compact structure with high-strength chassis;
- » Easy operation and maintenance, low cost;
- » Excellent performance damping
- » Compliance with international electrical safety standards of electrical
- » 8 hours base tank;
- » High-performance maintenance-free batteries with isolation switch;
- » 50°C Radiator;
- » Forklift bottom hole design, easy to transport;
- » Industrial muffler;
- » Noise reduction structure, low noise;
- » Convenient power output interface;
- » IP56(control system);
- » Customized design for user;



Power Cell DIESEL GENERATOR

Technical Data

| Model | | CU50 |
|---------------|---------|---------|
| Prime power | kW | 40.0 |
| | kVA | 50.0 |
| Standby power | kW | 44.0 |
| | kVA | 55.0 |
| Rated voltage | V | 400/230 |
| Rated current | A | 65 |
| Sound level | dB(@7m) | ≤72 |

Engine

| | | |
|-----------------------|--------------------|---------|
| Brand | Cummins | |
| Model | 4BTA3.9-G2 | |
| Aspiration | Turbo,Water/Air DC | |
| No. of cylinder | 4 | |
| Fuel injection system | AD type | |
| Displacement | Liquid | 3.9 |
| Bore/Stroke | mm | 102*120 |
| Compression ratio | 16.5 | |
| Rated speed | rpm | 1500 |
| Rated power | kW | 50 |
| Governing method | Electrical | |
| Starting Motor | V | 24 |

Exhaust System

| | | |
|-------------------|---------------------|------|
| Exhaust gas flow | m ³ /min | 14.8 |
| Exhaust gas temp | °C | 497 |
| Max back pressure | kPa | 10 |

Air Intake System

| | | |
|-----------------------|---------------------|-----|
| Max intake restrictio | kPa | 6.2 |
| Consumption | m ³ /min | 5.9 |
| Air flow | m ³ /min | 158 |

Fuel System

| | | |
|--------------------|-----|------|
| 100% load | L/h | 13.1 |
| 75% load | L/h | 9.8 |
| 50% load | L/h | 6.7 |
| Fuel tank capacity | L | 145 |

Lubrication System

| | | |
|------------------|--------|------|
| Oil capacity | L | 16.4 |
| Oil consumption | g/kw.h | ≤4 |
| Min oil pressure | Mpa | 350 |

Cooling System

| | | |
|---------------------|----|-------|
| Coolant capacity | L | 24 |
| Thermostat | °C | 83-95 |
| Top tank temperatur | °C | 100 |

Alternator

| | | |
|--------------------|---------------------------|---------|
| Model | EXCEL | ZL224D |
| Phase | 3.0 | |
| Voltage | V | 400/230 |
| Wiring type | 3 Phase 4 wire | |
| Bearing | 1 | |
| Power factor | 0.8 | |
| Frequency | Hz | 50 |
| Prime power | kW | 40 |
| Exciter type | Brushless,self-excitation | |
| Voltage regulation | % | ±0.5 |
| Protection grade | IP23 | |
| Insulation grade | H/H | |
| Altitude | m | ≤1000 |

Controller

| | |
|-------|---------|
| Brand | DeepSea |
| Model | DSE6020 |

- Generator & load power monitoring (kW, kV A, kV Ar, pf)
- Generator overload protection (kW)
- Generator/load current monitoring & protection
- Configurable analogue/digital inputs
- Configurable DC, volt-free and staged loading outputs
- CAN, MPU & alternator speed sensing
- Tier 4 CAN engine support
- Configurable event log (50)
- DSE Configuration Suite PC Software
- Fuel and start outputs (configurable on CAN)



Dimension and Weight

| | Open type | Silent type |
|----------------|-----------|-------------|
| Model | EP-CU50 | EPS-CU50 |
| Length(L) (mm) | 1900 | 2480 |
| Width(W) (mm) | 800 | 1000 |
| Height(H) (mm) | 1280 | 1400 |
| Weight (kgs) | 900 | 1300 |