

# 40kVA ED40CuYE-OPEN

Powered by



\*Image may vary from actual model.

## The Generating Set Includes a 240V AC Mains Battery Charger

The complete generating set is mounted as a whole onto a heavy duty fabricated steel baseframe.

Anti-vibration pads are fixed between the engine and alternator feet, and the baseframe, ensuring complete vibration isolation of the rotating assembly.

Stringent factory tests are carried out on the generating set, with a full load test completed prior to despatch.

All protective devices, control functions and site load conditions are simulated. The generator and its systems are thoroughly checked prior to leaving our factory.

Warranty on the genset is for 12 months or 1000 hours from date of supply (whichever occurs first) and covers against faulty workmanship, materials and design.

## Engine

The Cummins range of diesel engines are heavy duty and specially built for industrial applications.

They are water radiator cooled and come in four stroke, with Turbo engines available. The engines are fitted with a highly efficient noise-reducing silencer and governed to a fixed speed of 1500rpm.

## Alternator

Crossley SLG Series Alternators are single bearing, 4-pole, with a brushless, rotating field design and are self-excited with power derived from main output windings using the Automatic Voltage Regulator (AVR).

Manufactured using the highest quality copper and steel with all laminations impregnated with epoxy resins, the SLG Series are of a modern design with a precision AVR that allows overloads of 10% for one hour in 12, and overloads for motor starting and short circuit protection of up to 300%.

Available in either Single Phase (240V), 2-Phase (480V) or 3-Phase (415V).

## Control System

The control starting system is fitted standard.

Starting is remote or local to the machine with push Start/ Stop button and includes the following digital indicators:

- Oil Pressure
- Engine Temperature
- Frequency
- Volts and Amps
- Emergency stop button
- Output circuit breaker
- Shut Down for low oil & temperature

The control system can also be configured to operate with an Automatic Transfer Switch with logic.

# Technical Specifications

## 40kVA

### ED40CuYE-OPEN



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#### Engine Specifications

|                                  |                         |
|----------------------------------|-------------------------|
| Engine Model                     | Cummins 4BT3.9G2        |
| Engine Speed                     | 1500 rpm                |
| Cylinders                        | 4                       |
| Cubic Capacity                   | 3.9 L                   |
| Bore/Stroke                      | 102 x 119 mm            |
| Compression Ratio                | 18.0 : 1                |
| Aspiration                       | Turbocharged            |
| Starter Voltage                  | 24 V                    |
| Flywheel (Max. Continuous Power) | 40 kW                   |
| Combustion Air Flow              | 3.4 m <sup>3</sup> /min |
| Cooling Air flow                 | 136 m <sup>3</sup> /min |
| Cooling System                   | Radiator Cooled         |
| Heat Rejection to Cooling System | 32 kW                   |
| Exhaust Gas Flow                 | 8 m <sup>3</sup> /min   |
| Exhaust Gas Temperature          | 550 °C                  |
| Fuel Type                        | Diesel                  |
| Fuel Tank Capacity               | 120 L                   |
| Fuel Consumption (Continuous)    | 9.2 L/h                 |
| Fuel Consumption (Standby)       | 10 L/h                  |

Note: Standby reference conditions 27°C (80°F) air inlet temperature 152.4 m (500ft) ASL. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with a specific gravity of 0.85 and conforming to BS29869:1988, Class A2.

#### Design Features

- Heavy duty fabricated steel baseframe
- Bunded Fuel Tank (AS1940-2004 compliant)
- Battery Charger
- Control Panel with Emergency Stop button
- Prime or Standby Power
- Weather protected acoustic canopy

#### Generator Specifications

|                        |                      |
|------------------------|----------------------|
| Dimensions (L x W x H) | 1900 x 900 x 1500 mm |
| Weight                 | 1050 kg              |

#### Alternator Specifications

|                    |                            |
|--------------------|----------------------------|
| Alternator Model   | Crossley SLG Series        |
| Single Phase       | Single Phase               |
| Active Power       | 40 kVA at 0.8 pf (Standby) |
| Power              | 32 kW                      |
| Electric Potential | 240 V                      |
| Frequency          | 50 Hz                      |

These ratings are applicable for supplying continuous electrical power at variable load in the event of a utility power failure. No overload is permitted on these ratings.

#### Optional Extras

- Additional Protection Alarms
- Jacket Heater
- Automatic Transfer Switch (ATS)
- Load Banks
- Auxiliary Fuel Tanks
- Genuine Spare Parts
- Special Builds Welcome!

#### The Diesel Generator Experts

Welling & Crossley is Australia's largest diesel generator and engine specialist. Australian owned and operated since 1926, Welling & Crossley is an internationally recognised Australian leader in the manufacture and supply of diesel generating sets for industrial or commercial applications. Also available is a complete range of portable generators, inverter generators, back up generators, diesel engines and fire products.

We have the expertise to provide sound advice on your power generating needs. Whether your requirements are prime (continuous) power or standby power applications, you can choose from our standard build sets, or we can tailor to suit your application requirements.