

Powered by



# 506kVA ED506DSE/3

\*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

Hyundai is the trusted brand when it comes to manufacturing diesel engines for the power industry. Featuring maximum performance, high fuel efficiency and hassle-free systems that will go the distance, Hyundai has been producing diesel engines since 1958, and is backed by an unparalleled track record for providing better power, quality and durability. Suitable in either prime or standby applications, you just know they'll keep working day after day.

## 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

## 506kVA

### ED506DSE/3



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### Engine Specifications

Engine Model	Hyundai DPI58LC
Engine Speed	1500 rpm
Cylinders	8Ti
Cubic Capacity	14.6 L
Bore/Stroke	128 x 142 mm
Compression Ratio	15:1
Aspiration	Turbocharged, Intercooled
Starter Voltage	24 V
Flywheel (Max. Continuous Power)	449 kW
Combustion Air Flow	31 m <sup>3</sup> /min
Cooling Air flow	670 m <sup>3</sup> /min
Cooling System	Radiator Cooled
Heat Rejection to Cooling System	365 kW
Exhaust Gas Flow	88 m <sup>3</sup> /min
Exhaust Gas Temperature	60 °C
Fuel Type	Diesel
Fuel Tank Capacity	1000 L
Fuel Consumption (Continuous)	99 L/h
Fuel Consumption (Standby)	110 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.

### Canopy

A weather protective acoustic enclosure is fitted to protect and prolong the life of your generator. Constructed of galvanised steel sheet that is cleared and finished using a powdercoat paint finish, this acoustic canopy will reduce the noise level of the generating set to approximately **80 dB(A)** at 1 metre from the machine (**73 dB(A) @ 7 m**). Requires 800 mm access (width) to open doors, and the exhaust protrudes 300 mm above the canopy.

### Generator Specifications

Dimensions (L x W x H)	4800 x 1900 x 2430 mm
Weight (Dry)	5100 kg

### Alternator Specifications

Alternator Model	Crossley SLG Series
Single Phase	Three Phase
Active Power	506 kVA at 0.8 pf (Standby)
Power	404 kW
Electric Potential	415 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

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

### Design Features

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

### 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.