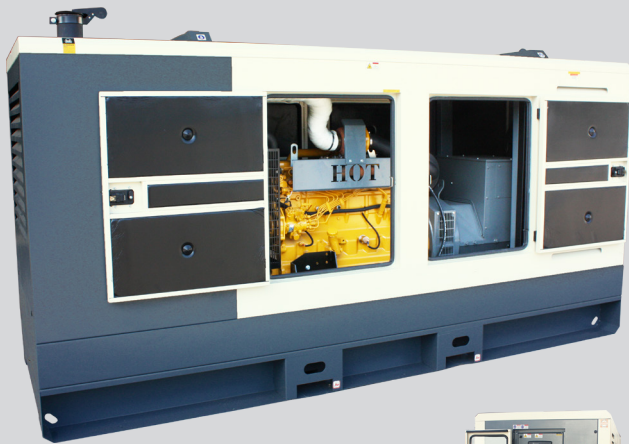




WELLING & CROSSLEY

100 kVA

MODEL: ED100STJDG



Powered by  **JOHN DEERE**



Image may vary from actual model.

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.

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).

The Generating Set

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

John Deere has an unparalleled track record for providing reliable, hard-working and efficient engines that won't let you down, even in the most extreme conditions. Whatever you throw at them, you just know they'll keep working day after day. With over 80 years of proven performance, you can depend on a John Deere engine for uninterrupted performance, durability and unbeatable fuel economy. These engines are built tough, for our harsh Australian conditions.

Control System

The control starting system is an Auto-Start Control Module and is fitted standard. Starting is remote or local to the machine with push Start/Stop button and includes the following:

- Alternator frequency & CAN speed sensing
- Fully configurable via the interface or PC using USB
- Generator/load power monitoring
- Accumulated power monitoring
- Generator overload protection
- Fuel and start outputs
- Engine speed protection
- Engine run-time scheduler
- Battery voltage monitoring
- Static battery charger

Can also be configured to operate with an Automatic Transfer Switch with logic.

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MODEL: ED100STJDG

ENGINE SPECIFICATIONS

Engine Model	John Deere 4045H
Engine Speed	1500 rpm
Cylinders	4TI
Cubic Capacity	4.5 L
Bore/Stroke	106 x 127 mm
Compression Ratio	17:2:1
Aspiration	Turbocharged, Intercooled
Starter Voltage	12 V
Flywheel (Max. Continuous Power)	96.5 kW
Combustion Air Flow	8 m³/min
Cooling Air flow	200 m³/min
Cooling System	Radiator Cooled
Heat Rejection to Cooling System	82 kW
Exhaust Gas Flow	22 m³/min
Exhaust Gas Temperature	545 °C
Fuel Type	Diesel
Fuel Tank Capacity	300 L
Fuel Consumption (Continuous)	23.3 L/h
Fuel Consumption (Standby)	25 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 included, to protect and prolong the life of your generator. Finished using a powdercoat paint finish, this acoustic canopy reduces the noise level of the generating set to approximately 80 dB(A) at 1 metre from the machine (73 dB(A) @ 7 m).



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ALTERNATOR SPECIFICATIONS

Alternator Model	Crossley
Electric Power	Three Phase
Active Power	100 kVA at 0.8 pf (Standby)
Power	80 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.

GENERATOR SPECIFICATIONS

Dimensions (L x W x H)	3500 x 1200 x 1720 mm
Weight	2400 kg

Design Features

- Heavy duty fabricated steel baseframe
- Bunded Fuel Tank (AS1940-2004 compliant)
- Battery Charger
- Control Panel with Emergency Stop button
- Anti-vibration mounting pads fitted
- Weather protected acoustic canopy

The generating set is load tested before dispatch. All protective devices control functions and site load conditions are simulated.

Specifications are subject to variation without notice.

VICTORIA NEW SOUTH WALES QUEENSLAND SOUTH AUSTRALIA WESTERN AUSTRALIA

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