Prime Rating
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating
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. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions
Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Output Ratings
<table>
<thead>
<tr>
<th>Generating Set Model</th>
<th>Prime</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>- / -</td>
<td>- / -</td>
</tr>
<tr>
<td>440/254V, 60Hz</td>
<td>500.0 kVA / 400.0 kW</td>
<td>550.0 kVA / 440.0 kW</td>
</tr>
</tbody>
</table>

Ratings at 0.8 power factor.

Prime Rating

Standby Rating

Available Options
FG Wilson offer a range of optional features to tailor our generating sets to meet your power needs. Options include:

- A wide range of Sound Attenuated Enclosures
- A variety of generating set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit: www.FGWilson.com

Ratings and Performance Data
<table>
<thead>
<tr>
<th>Engine Make &amp; Model:</th>
<th>Scania DC13072A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternator manufactured for</td>
<td>WEG</td>
</tr>
<tr>
<td>FG Wilson by:</td>
<td>GTA311AI41</td>
</tr>
<tr>
<td>Control Panel:</td>
<td>Optional</td>
</tr>
<tr>
<td>Base Frame:</td>
<td>Heavy Duty Fabricated Steel</td>
</tr>
<tr>
<td>Circuit Breaker Type:</td>
<td>3 Pole MCCB-OPTION</td>
</tr>
<tr>
<td>Frequency:</td>
<td>50 Hz 60 Hz</td>
</tr>
<tr>
<td>Engine Speed:</td>
<td>1800 RPM</td>
</tr>
<tr>
<td>Fuel Tank Capacity:</td>
<td>250 (66.0) litres (US gal)</td>
</tr>
<tr>
<td>Fuel Consumption:</td>
<td>1hr (US gal/hr)</td>
</tr>
<tr>
<td>(100% Load) - Prime</td>
<td>100.7 (26.6)</td>
</tr>
<tr>
<td>- Standby</td>
<td>113.1 (29.9)</td>
</tr>
</tbody>
</table>

Dimensions and Weights

<table>
<thead>
<tr>
<th>Length (L)</th>
<th>Width (W)</th>
<th>Height (H)</th>
<th>Dry (kg)</th>
<th>Wet (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3480 (137.0)</td>
<td>1120 (44.1)</td>
<td>2075 (81.7)</td>
<td>2919 (6435)</td>
<td>2953 (6510)</td>
</tr>
</tbody>
</table>

Dry = With Lube Oil  Wet = With Lube Oil and Coolant

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1 22.

Generating set pictured may include optional accessories.
**Exhaust System**

- **Silencer Type:** Turbocharged Air To Air Charge Cooled
- **Silencer Model & Quantity:**
- **Pressure Drop Across Silencer System:** kPa (in Hg)
- **Silencer Noise Reduction Level:** dB
- **Maximum Allowable Back Pressure:** kPa (in Hg)
- **Exhaust Gas Flow:** m³/min (cfm)
- **Exhaust Gas Temperature:** °C (°F)

**Lubrication System**

- **Oil Filter Type:** Spin-On, Full Flow
- **Total Oil Capacity:** l (US gal)
- **Oil Pan:** l (US gal)
- **Oil Type:** ASTM 2896 TBN 12
- **Oil Cooling Method:** Water

**Cooling System**

- **Cooling System Capacity:** l (US gal)
- **Water Pump Type:** Centrifugal
- **Heat Rejected to Water & Lube Oil:** kW (Btu/min)
- **Heat Radiation to Room:** Heat radiated from engine and alternator kW (Btu/min)
- **Radiator Fan Load:** kW (hp)
- **Radiator Cooling Airflow:** m³/min (cfm)
- **External Restriction to Cooling Airflow:** kPa (in H₂O)

**Fuel System**

- **Fuel Filter Type:** Paper Filter Element"n
- **Recommended Fuel:** Class A2 Diesel
- **Fuel Consumption:** l/hr (US gal/hr)

**Performance**

- **Engine Speed:** rpm
- **Gross Engine Power:** kW (hp)
- **BMEP:** kPa (psi)

**Fuel System**

- **Fuel Filter Type:** Paper Filter Element
- **Recommended Fuel:** Class A2 Diesel
- **Fuel Consumption:** l/hr (US gal/hr)

**Exhaust System**

- **Silencer Type:** Industrial
- **Silencer Model & Quantity:** ST-1060 (1)
- **Pressure Drop Across Silencer System:** kPa (in Hg)
- **Silencer Noise Reduction Level:** dB
- **Maximum Allowable Back Pressure:** kPa (in Hg)
- **Exhaust Gas Flow:** m³/min (cfm)
- **Exhaust Gas Temperature:** °C (°F)
### Alternator Physical Data

**Manufactured for FG Wilson by:**
- WEG

**Model:**
- GTA311AI41

**No. of Bearings:**
- 1

**Insulation Class:**
- H

**Winding Pitch Code:**
- 2/3 - A

**Wires:**
- 12

**Ingress Protection Rating:**
- IP21

**Excitation System:**
- AUX COIL

**AVR Model:**
- GRT7-TH4E

### Alternator Operating Data

**Overspeed:**
- rpm 2160

**Voltage Regulation:**
- (Steady state) +/- 0.5%

**Wave Form NEMA = TIF:**
- 50

**Wave Form IEC = THF:**
- 5.0%

**Total Harmonic content LL/LN:**
- 5.0%

**Radio Interference:**
- Suppression is in line with European Standard EN61000-6

**Radiant Heat:** kW (Btu/min)
- 50 Hz -
- 60 Hz 26.1 (1484)

### Alternator Performance Data:

<table>
<thead>
<tr>
<th>Data Item</th>
<th>50 Hz</th>
<th>60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Technical Data 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>Prime:</td>
<td>Standby:</td>
</tr>
<tr>
<td>220/127V</td>
<td>500.0</td>
<td>400.0</td>
</tr>
<tr>
<td>380/220V</td>
<td>498.1</td>
<td>398.5</td>
</tr>
<tr>
<td>440/254V</td>
<td>500.0</td>
<td>400.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage Technical Data 60 Hz</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage</strong></td>
<td>Prime:</td>
<td>Standby:</td>
</tr>
<tr>
<td>220/127V</td>
<td>550.0</td>
<td>440.0</td>
</tr>
<tr>
<td>380/220V</td>
<td>544.8</td>
<td>435.8</td>
</tr>
<tr>
<td>440/254V</td>
<td>550.0</td>
<td>440.0</td>
</tr>
</tbody>
</table>

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.
Documentation
A full set of operation and maintenance manuals and circuit wiring diagrams.

Generating Set Standards
The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.
FG Wilson is a fully accredited ISO 9001 company.

Warranty
All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com.

Dealer contact details:

FG Wilson manufactures product in the following locations:
Northern Ireland • Brazil • China • India • USA
With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.
To contact your local Sales Office please visit the FG Wilson website at www.FGWilson.com.
FG Wilson is a trading name of Caterpillar (NI) Limited.
In line with our policy of continuous product development, we reserve the right to change specification without notice.