# Technical Data

## QSK23 Generating Sets – 50 Hz

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine Model</th>
<th>Aspiration</th>
<th>Ratings kVA (kW)</th>
<th>Prime</th>
<th>Standby</th>
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<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>651 DQCC</td>
<td>QSK23G3</td>
<td>Turbocharged and Air to Air After Cooled</td>
<td>814 (651)</td>
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### Ratings kVA (kW)

- **Prime**: Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. Nominally rated. (Equivalent to Prime Power in accordance with ISO 8528 and overload power in accordance with ISO3046, AS2789, DIN6271 and BS5514).
- **Standby**: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. Nominally Rated (equivalent to fuel stop power in accordance with ISO 3046, AS2789, DIN6271 and BS5514).
- Prime and standby ratings are outputs at 40°C ambient temperature and 1000 m ASL.

### Ratings

- **Fuel Consumption Load**: 1/4, 1/2, 3/4, Full
- **Fuel Consumption L/hr**: 46, 85, 121, 161, 50, 92, 132, 178, 44, 79, 117, 151, 47, 86, 127, 168

### Specifications

- **Maximum Inlet Inlet Temperature °C (engine jacket)**: 70, 70, 70, 95.5
- **Maximum Fuel Return Temperature °C**: 71, 71, 71, 71
- **Coolant Capacity (With Radiator) litres**: 95.5, 95.5, 95.5, 95.5
- **Max Fuel Inlet Temperature °C**: 7.6, 7.6, 7.6, 7.6
- **Coolant Flow Rate (engine jacket) litres/s**: 203, 203, 203, 203
- **Maximum Return Restriction mm, Hg**: 229, 229, 229, 229
- **Heat Rejection to Engine Jacket Coolant kWm**: 215, 222, 204, 227
- **Heat Rejection to Aftercooler kWm**: 122, 146, 110, 122
- **Heat Rejection to Fuel kWm**: 6.8, 6.8, 6.8, 6.8
- **Heat Radiated to Ambient (Engine) kW**: 65, 71, 61, 67
- **Coolant Friction Head (JW) kPa**: 34, 34, 34, 34
- **Maximum Coolant Static Head above crank centerline m**: 18.3, 18.3, 18.3, 18.3
- **Max Inlet Temp (aftercooler) °C**: 73, 73, 73, 73
- **Combustion Air m³/min**: 45.8, 53.28, 46.74, 49.26
- **Maximum Air Cleaner Restriction with clean filter element in. H₂O**: 381, 381, 381, 381
- **Alternator Cooling Air m³/min**: 96.84, 96.84, 96.84, 96.84
- **Radiator Cooling Air m³/min**: 882, 882, 882, 882
- **Max Static Restriction in. H₂O**: 0.5, 0.5, 0.5, 0.5
- **Exhaust Gas Flow (l/s)**: 2259, 2463, 2183, 2334
- **Exhaust Gas Temperature °C**: 532, 543, 541, 550
- **Max Top Tank Temp (Jacket) °C**: 73, 73, 73, 73
- **Maximum Back Pressure (mm Hg)**: 76.2, 76.2, 76.2, 76.2
- **Derating Factors — Engine**: RTF, RTF, RTF, RTF

### Ratings

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<tr>
<th>Model</th>
<th>Dim A mm (in)</th>
<th>Dim B mm (in)</th>
<th>Dim C mm (in)</th>
<th>Set Weight* dry kg (lbs)</th>
<th>Set Weight* wet kg (lbs)</th>
</tr>
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<tr>
<td>DQCB</td>
<td>4414 (173.8)</td>
<td>1738 (68.4)</td>
<td>2214 (87.2)</td>
<td>6527 (14392)</td>
<td>6668 (14703)</td>
</tr>
<tr>
<td>DQCC</td>
<td>4414 (173.8)</td>
<td>1738 (68.4)</td>
<td>2214 (87.2)</td>
<td>6682 (14734)</td>
<td>6623 (15045)</td>
</tr>
</tbody>
</table>

*Set weights are without sub-base tank. Dimensions and weights are for guidance only. Do not use for installation design. Ask for certified drawings on your specific application.*