Rental Power
300 kW

Description
This Cummins® rental package is a fully integrated mobile power generation system, providing optimum performance, reliability, and versatility for Standby and Prime power applications.

Features
Cummins diesel engines
• U.S. EPA Tier III compliant
• Rugged 4-cycle industrial diesel engine with excellent transient performance
• Lightweight, compact and excellent fuel economy
• 2-stage spin on fuel filter w/pre-filter water separator with drain
• Equipped with heavy duty, 2-stage air cleaners with dust ejector

Control features
• The most advanced, reliable and capable generator set control system on the market today
• Controls provide precise frequency and voltage regulation, alarm and status message display in one easy to operate customer interface
• Remote monitoring and operation ready
• Auto shutdown at fault detection

Engine controls
• Oil Pressure and Water Temp Gauge
• Fuel Level Gauge & Battery Voltage Gauge
• Hour meter

Stamford alternators
• 12-lead reconnectable alternators fitted with voltage selection switch
• Permanent magnet excitation for improved performance in non-linear load applications

Rental package enclosure
• Sound attenuated, white powder coated lockable enclosure
• Roof mounted, single point lift
• Cooling system rated for 120 °F (50 °C) ambient
• Complete engine fluid containment reservoir
• Shore power (120 VAC) - No breakers in shore power connection.

Standard generator electrical features
• Single phase convenience receptacles
• Distribution panel with L1, L2, L3 Neutral and Ground
• Main line shunt trip type circuit breaker
• Auto start-stop with remote contacts
• Over current sensing
• 3 available auxiliary connections

Generator electrical options
• Multiple voltage selector switch (480/277 VAC/3 phase or 208/120 VAC/3 phase or 240/120 VAC/1 phase)
• 600/480 V switchable
• Barrel lug connection
• Cam lock distribution panel
• Heated HMI

Additional rental package features
• Tank style coolant heater
• Low coolant shutdown system
• Battery disconnect switch
• Base mount generator – see Options for trailers

Rental package options
• DOT approved electric brake trailer with heavy duty center mounted jack, ball or pintle hitch
• 110 V, 5 Amp battery charger
• 20 hour fuel tank (100% Prime) with gauge
• Transport Canada UN31A compliant fuel tank

<table>
<thead>
<tr>
<th>Model</th>
<th>Volatges (V)</th>
<th>Standby rating 60 Hz kW (kVA)</th>
<th>50 Hz kW (kVA)</th>
<th>Prime rating 60 Hz kW (kVA)</th>
<th>50 Hz kW (kVA)</th>
<th>Engine model</th>
<th>Alternator model</th>
</tr>
</thead>
<tbody>
<tr>
<td>C300D6R</td>
<td>208/480</td>
<td>300 (375)</td>
<td></td>
<td>270 (337)</td>
<td></td>
<td>QSM11-G4</td>
<td>HCI434E</td>
</tr>
<tr>
<td></td>
<td>480/600 switchable</td>
<td>300 (375)</td>
<td></td>
<td>270 (337)</td>
<td></td>
<td>QSM11-G4</td>
<td>HCI434F</td>
</tr>
</tbody>
</table>

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**Engine specifications**

<table>
<thead>
<tr>
<th>Engine model</th>
<th>QSM11-G4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternator data sheet</td>
<td>HCI434E (208/480), HCI434F (480/600 switchable)</td>
</tr>
<tr>
<td>Engine data sheet</td>
<td>FR-20138</td>
</tr>
<tr>
<td>Tier rating</td>
<td>TPEM (Tier III)</td>
</tr>
<tr>
<td>Design</td>
<td>4 cycle, In-Line, turbocharged and after-cooled</td>
</tr>
<tr>
<td>Bore</td>
<td>125 mm (4.92 in.)</td>
</tr>
<tr>
<td>Stroke</td>
<td>147 mm (5.79 in.)</td>
</tr>
<tr>
<td>Displacement</td>
<td>10.8 L (661 in³)</td>
</tr>
<tr>
<td>Cylinder block</td>
<td>Cast iron, In-Line 6 cylinder</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>1000 CCA GR31</td>
</tr>
<tr>
<td>Battery charging alternator</td>
<td>70 amps</td>
</tr>
<tr>
<td>Starting voltage</td>
<td>24 volt, negative ground</td>
</tr>
<tr>
<td>Fuel system</td>
<td>Cummins Celect: No.2 diesel fuel</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>Spin on fuel filter with water separator</td>
</tr>
<tr>
<td>Air cleaner type</td>
<td>2-stage, dry replaceable element with dust ejector</td>
</tr>
<tr>
<td>Lube oil filter type(s)</td>
<td>Full flow bypass combo filter</td>
</tr>
<tr>
<td>Standard cooling system</td>
<td>122 °F (50 °C) ambient radiator</td>
</tr>
</tbody>
</table>

**Alternator specifications**

| Design | Brushless, 4 pole, drip proof revolving field |
| Stator | 2/3 pitch |
| Rotor | Single bearing, flexible disc |
| Insulation system | Class F per NEMA MG1-1.65 |
| Standard temperature rise | 95/50 °C Prime |
| Exciter type | PMG (Permanent Magnet Generator) |
| Phase rotation | A (U), B (V), C (W) |
| Alternator cooling | Direct drive centrifugal blower fan |
| AC waveform Total Harmonic Distortion (THDV) | < 1.5% no load, < 5% non-distorting balance linear load |
| Telephone Influence Factor (TIF) | < 50 per NEMA MG1-22.43 |
| Telephone Harmonic Factor (THF) | < 2% |

**Power capability specifications** *(Assume power factor = 0.80 for 3 phase Amps)*

<table>
<thead>
<tr>
<th>Standby rating</th>
<th>240 V, 1 phase Amps</th>
<th>208 V, 3 phase Amps</th>
<th>480 V, 3 phase Amps</th>
<th>600 V, 3 phase Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>C300D6R</td>
<td>903</td>
<td>1040</td>
<td>451</td>
<td>361</td>
</tr>
</tbody>
</table>

**Electrical power panel specifications**

<table>
<thead>
<tr>
<th>Model voltage</th>
<th>120 V duplex receptacles</th>
<th>240 V twist (stud diameter)</th>
<th>Load lug connection (stud diameter)</th>
<th>Load lug circuit breakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>120/480 Volt</td>
<td>2 - 20 Amps</td>
<td>3 - 50 Amps</td>
<td>1/2 inch</td>
<td>1200 Amps</td>
</tr>
<tr>
<td>480/600 Volt switchable</td>
<td>0</td>
<td>0</td>
<td>1/2 inch</td>
<td>600 Amps</td>
</tr>
</tbody>
</table>

**Site derating factors**

Standby application: The engine may be operated at 1800 rpm up to 305 m (1000 ft) and 50 °C (122 °F) without power deration. For sustained operation above these conditions, derate by 4% per 300 m (1,000 ft), and 11% per 10 °C (18 °F).
Control system

**PowerCommand® control**
- Integrated automatic voltage regulator and engine speed governor
- Control components designed to withstand the vibration levels typical in generator sets

**Standard control description**
- Analog AC frequency meter
- Analog AC voltage meter
- Cycle cranking control
- Digital display panel
- Idle mode control
- Menu switch
- Panel backlighting
- Remote starting, 12 V, 2 wire
- Reset switch
- Run-off-auto switch
- Sealed front panel, gasketed door
- Self-diagnostics

**Standard performance data warnings**
- High coolant temperature
- High DC voltage
- Low coolant temperature
- Low DC voltage
- Low oil pressure
- Over current
- Weak battery
- Over speed
- Under frequency
- Intake manifold temperature OOR high/low
- Intake manifold temperature high
- Water in fuel OORH/OORL
- General engine fault
- Coolant level OOR high/low

**Standard protection functions**
- Voltmeter/ammeter phase selector
- Warnings
- High coolant temperature
- High DC voltage
- Low coolant temperature
- Low DC voltage
- Low oil pressure
- Over current
- Weak battery

**Shutdowns**
- Emergency stop local/remote
- Fail to crank
- High AC voltage
- High coolant temperature
- Low coolant level
- Low AC voltage
- Low oil pressure
- Over current
- Over speed
- Under frequency
- Intake manifold temperature high
- Fail to start/stop
- Over frequency
- Alternator reconnecting switch operated (breaker closed)

**Agency approvals**
- NFPA110 for Levels 1 or 2 systems
- ISO 8528-4: 1993 Compliance, Controls and Switchgear
- CE Marking
- EN50081-1, 2 Residential/Light Industrial Emissions or Industrial Emissions
- EN50082-1.2
- ISO 7637-2, Level 2: DC supply surge test
- Mil Std. 202C, Method 101 and ASTM B117: Salt Fog Test
- Designed and manufactured in ISO 9001 certified facilities. Suitable for use on generator sets that are UL 2200 Listed
Ratings definitions

Standby:
Applicable for supplying Emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. ( Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally rated.

Prime (unlimited running time):
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. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514).

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dim ‘A’ (mm)</th>
<th>Dim ‘B’ (mm)</th>
<th>Dim ‘C’ (mm)</th>
<th>Weight w/o fuel (kg)</th>
<th>Weight with fuel (kg)</th>
<th>Fuel capacity (liters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C300D6R</td>
<td>4191 (165)</td>
<td>1575 (62)</td>
<td>2439 (96)</td>
<td>4780 (10450)</td>
<td>6068 (13380)</td>
<td>1514 (400)</td>
</tr>
<tr>
<td>With trailer</td>
<td>6223 (245)</td>
<td>2489 (98)</td>
<td>2921 (115)</td>
<td>6119 (13493)</td>
<td>7407 (16333)</td>
<td>1514 (400)</td>
</tr>
</tbody>
</table>

Fuel consumption

<table>
<thead>
<tr>
<th>Load</th>
<th>¼</th>
<th>½</th>
<th>¾</th>
<th>Full</th>
<th>¼</th>
<th>½</th>
<th>¾</th>
<th>Full</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Gal/hr</td>
<td>7.2</td>
<td>11.8</td>
<td>17</td>
<td>23</td>
<td>6.5</td>
<td>10.8</td>
<td>15</td>
<td>19.8</td>
</tr>
<tr>
<td>L/hr</td>
<td>27.3</td>
<td>44.7</td>
<td>64.4</td>
<td>87.1</td>
<td>24.6</td>
<td>40.9</td>
<td>46.8</td>
<td>75</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>kW rating</th>
<th>Sound level at full load</th>
<th>Tier rating</th>
<th>Hours of operation (75% load)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standby</td>
<td>Prime</td>
<td>dB(A) @ 7 M</td>
<td>Standby</td>
</tr>
<tr>
<td>C300D6R</td>
<td>300</td>
<td>270</td>
<td>72</td>
<td>Tier III</td>
</tr>
</tbody>
</table>

Trailer information

<table>
<thead>
<tr>
<th>Model</th>
<th>Tire size</th>
<th>Tire type</th>
<th>Load range</th>
<th>Number of tyres per trailer</th>
<th>Lug pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>C300D6R</td>
<td>ST235/85R16</td>
<td>Radial</td>
<td>E</td>
<td>6</td>
<td>8 x 6.5</td>
</tr>
</tbody>
</table>

Certifications

These generator sets are certified to the following standards:

- CAN/CSA STD C22.2 NO. 100-04
- CAN/CSA STD C22.2 NO. 14-05

For more information contact your local Cummins distributor or visit power.cummins.com

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