# PRODUCT SPECIFICATIONS FOR D50 GC

## GENERATOR SET SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Rating</td>
<td>50 ekW</td>
</tr>
<tr>
<td>Maximum Rating</td>
<td>50 ekW</td>
</tr>
<tr>
<td>Emissions/Fuel Strategy</td>
<td>U.S. EPA Cert., Tier 3, SCAQMD Compliant</td>
</tr>
<tr>
<td>Voltage</td>
<td>208 to 600 Volts</td>
</tr>
<tr>
<td>Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Speed</td>
<td>1800 rpm</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Standby</td>
</tr>
</tbody>
</table>

## ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>C4.4, In-line 4, 4-cycle diesel</td>
</tr>
<tr>
<td>Bore</td>
<td>4.1 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>5 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>269 in</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>18.2:1</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged</td>
</tr>
<tr>
<td>Fuel System</td>
<td>Common Rail</td>
</tr>
<tr>
<td>Governor Type</td>
<td>Mechanical, ADEM™A4</td>
</tr>
</tbody>
</table>

## GENERATOR SET DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length - Maximum</td>
<td>77.2 in</td>
</tr>
<tr>
<td>Width - Maximum</td>
<td>43.3 in</td>
</tr>
<tr>
<td>Height - Maximum</td>
<td>48 in</td>
</tr>
</tbody>
</table>
D50 GC STANDARD EQUIPMENT

CERTIFICATES
  IBC Seismic and Wind Certifications

AIR INLET SYSTEM
  Air Cleaner
  Cartridge type air filter

CIRCUIT BREAKERS
  Power perminal strips
  Second circuit breaker box
  3-Pole 100% rated
  Breakers (100% UL rated)

CHARGING SYSTEM
  NFPA battery charger UL10A 120VAC

CONTROL PANEL
  GCCP 1.2 Control panel

EXHAUST SYSTEM
  Stub pipe, gaskets, raincap and SAE exhaust flange for customer use - shipped loose

FUEL SYSTEM
  Standard open set fuel tank / base supplied base, formed steel with single wall integral 8-hour fuel tank

COOLING SYSTEM
  Fan drive, battery charging alternator drive
  Radiator and cooling fan with guards
  Caterpillar extended life coolant
  Coolant drain line with valve
  Radiator stone guard

CONTROL PANELS
NFPA110 bundle includes:

FSS low fuel level alarm & indication panel circuitry required when sub-base tank is selected

WCA1 Low coolant temperature alarm

WSS1 Low coolant level shut down

Oil temperature guage and sender

PAA1 Panel mounted audible alarm

A coolant heater, remote annunciator or 0.8 power factor test may be required depending on the application

PBC10NU NFPA Battery Charger

Remote E-stop button

Ground fault relay

Volt free contacts genset run and common alarm

Remote annunciator

Audible alarm

Discrete I/O module

Low coolant level shutdown

Low coolant temperature alarm

Overload shutdown via breaker

Protective devices:

Fuel level reading

GENERATOR

12 leads

GOVERNING SYSTEM

Mechanical and electrical governing system - model dependent

LUBE SYSTEM

Oil drain line with valve

Lubricating oil

GENERAL

Engine and alternator pre-paint, Caterpillar Yellow
STARTING/CHARGING SYSTEM
   Batteries
   24V battery with rack and cables

D50 GC OPTIONAL EQUIPMENT

CERTIFICATES
   IBC Seismic and Wind Certifications

AIR INLET SYSTEM
   Cartridge type air filter

ALTERNATOR SYSTEM
   R frame auxiliary winding

CHARGING SYSTEM
   NFPA battery charger UL10A 120VAC

CIRCUIT BREAKERS
   Second circuit breaker box
   Power perminal strips
   3-Pole 100% rated
   Breakers (100% UL rated)

CONTROL PANELS
   Audible alarm
   Remote annunciator
   Volt free contacts genset run and common alarm
   Remote E-stop button

   NFPA110 bundle includes: FSS low fuel level alarm & indication panel circuitry required when sub-base tank is selected - WSS1 Low Coolant level shut down - WCA1 Low Coolant temperature alarm - PAA1 Panel mounted audible alarm - PBC10NU NFPA Battery Charger - A coolant heater, remote annunciator or 0.8 power factor test may be required depending on the application

   Ground fault relay
   Oil temperature gauge and sender

   Protective devices: Low coolant temperature alarm - Low coolant level shutdown - Fuel level reading - Overload shutdown via breaker
Discrete I/O module

ENCLOSURES
Panel viewing window
External emergency stop
Sound attenuated enclosure, level 2
External emergency stop
Panel viewing window

COOLING SYSTEM
Radiator transition flange
Radiator transition flange

HEATING ELEMENTS
Anti-condensation heater
Coolant heater
Wiring for canopy space heater
Jacket water heater
Battery heater
Lube oil sump heater
Wiring for canopy space heater
Battery heater
Lube oil sump heater
Jacket water heater
Anti-condensation heater
Coolant heater

GENERATORS
Permanent magnet generator
Permanent magnet generator

MOUNTING SYSTEM
Seismic vibration isolators
Seismic vibration isolators

EXHAUST SYSTEM
10, 25 and 35 dBA silencer systems
Overhaed silencer mounting kit
Overhaed silencer mounting kit
10, 25 and 35 dBA silencer systems

FUEL SYSTEM
209 and 394 gallon sub-base fuel tanks
Tank riser
5 gallon fill containment
Emergency vent pipe
5 gallon spill containment
Emergency vent pipe
5 gallon fill containment
209 and 394 gallon sub-base fuel tanks
5 gallon spill containment
Tank riser

TESTS
PGS test report @ 1.0 power factor
PGS test report @ 0.8 power factor
4 Hour factory test
Generator test report
Generator test report
PGS test report @ 1.0 power factor
PGS test report @ 0.8 power factor
4 Hour factory test