FCX Systems, Inc. designs and manufactures a 90-120KVA diesel generated 400HZ power unit built for rugged demand, high performance and ease of operation. The performance and flexibility of this design is unparalleled.

The Cummins OSB3.3 110 HP and QSB4.5 155 HP, Tier III engine is quiet and efficient combined with a 400HZ generator with superior regulation. With almost unlimited parameter options on the standard LCD, such as under and over voltage settings, E & F interlock safety circuit and override capabilities, multiple engine performance parameters, and fault logs, this unit will meet the most difficult applications.

UNIT PERFORMANCE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Regulation</td>
<td>+/- 1% Maximum</td>
</tr>
<tr>
<td>Voltage Recovery</td>
<td>Meets or exceeds limits of MIL-STD-704F, typically less than 50 milliseconds with a 100% load change</td>
</tr>
<tr>
<td>MTTR</td>
<td>Mean time to repair: less than 30 minutes</td>
</tr>
</tbody>
</table>

The FCX GPU line incorporates aluminum covers, and an optional steel fuel tank for increased life expectancy. There are five hinged access doors for ease of maintenance. The trailer has a fifth-wheel design with drum brakes for maneuverability and reliability. The side cable trays are part of the trailer to help reinforce the sides and acts like bumpers to protect the unit. A low fuel shut off incorporated with a beacon and instrument panel indicator will keep the unit from running out of fuel. The anti-restart ignition is an included feature that will keep the operator from accidentally engaging the starter. The FCX GPU090-C-1 and FCX GPU120-C-2 are members of a family of high performance GPUs designed to be the smallest and lightest of its kind.
**ENGINE SPECIFICATIONS**

Cummins OSB3.3 110 HP, QSB4.5, 155 HP, Tier III diesel at 2000 RPM. Other engine manufacturers available.

- Electronic controlled, turbo charged, after cooled
- Low fuel shut off
- Low oil pressure shut off
- High water temperature shut off

**PERFORMANCE**

Rating: 120kVA, 3 phase, 4 wire, 115/200 VAC continuous
Rating: 90kVA, 3 phase, 4 wire, 115/200 VAC continuous
If equipped with dual outlets, each outlet 90KVA max
Meets or exceeds MIL-STD-704F Electrical power quality requirements
- Low fuel warning and shutdown, contactor on, over/under voltage, over/under frequency

**PROTECTIONS**

Meet MIL-STD-704F
- Overvoltage: 118 volts L – N, within .1 seconds
- Undervoltage: 108 volts L – N, within .1 seconds
- Overfrequency: 420 Hz in 1 second
- Underfrequency: 380 Hz in 1 second

**ENVIRONMENTAL**

Operating temperatures: -25°F to +125°F
Relative humidity 0 – 100% noncondensing

**UNIT SPECIFICATIONS**

Length: 130 in. with the tow bar up
Width: 70 in.
Height: 70 in. to the roof of the unit
Weight: 4500 lbs. without fuel

**VOLTAGE**

- Transient Voltage recovery time within +/- 1% in 100 milliseconds
- Within +/- 20% deviation upon application/removal of 100% load rating
- Modulation: does not exceed 0.5% of steady state voltage

**FINISH**

- Aluminum enclosure
- Powder coated with an automotive finish with resistance to corrosive liquids
- Standard color is arctic white. Custom colors are free with a paint chip, swatch or identification number

**INCLUDED OPTIONS**

- Fuel/water separator
- Stainless steel fuel tank
- Low fuel shut off
- Blue beacon low fuel light
- Running lights
- Anti-restart ignition

**OVERLOAD**

- 125% rated load for 5 minutes
- 150% rated load for 1 minute
- Each Output: 325 amps for 5 minutes

**FREQUENCY**

- Regulation: +/- 1% steady state
- Transient recovery: to within +/- 5Hz in < 2 seconds
- Modulation: 0.25% (1Hz)

**TRAILER**

- 4 wheel: 6:00 × 9 tires
- 5th wheel steering
- Towbar activated drum type brakes
- Towbar stop 3 in. from ground to prevent toe injuries

**REGULATIONS**

- Voltage Regulation: +/- 1% no load to full load
- Voltage adjust: +/- 15 volts
- Individual harmonic content (< 2 %)
- Line drop compensations: Automatic up to 5%

**INSTRUMENTATION/DISPLAY**

- Engine: Voltmeter, oil pressure, coolant temperature, RPM, fuel level, hour meter
- Generator: LED meters consisting of voltmeter, frequency meter and amp meter

**OPTIONS AND ACCESSORIES**

- Attached fire extinguisher
- Coolant heater kit
- Tie down rings
- Forklift pockets
- Amber strobe warning light

**ENGINEERED FOR ENDURANCE**