

60 kVA Diesel Engine Driven GPU Cummins B3.9 Diesel



Shown with optional 28.5 VDC Transformer-Rectifier kit.

HOBART: “A NAME YOU CAN TRUST”

Hobart offers the best combination of superior design, performance, proven reliability, and value to meet the critical needs of the airline industry with our series of modern ground power units. Integrating the *best in technology, customer influenced design* and Hobart’s years of *engineering expertise*, our Ground Power Units can be trusted to meet your aircraft’s needs for quality 400Hz power.

DESIGNED FOR DURABILITY:

Low profile, combined with standard 5th wheel steering, provides superior visibility and maneuverability in congested ramp areas. The welded steel frame, corrosion-free fuel tank and durable control panel facing assure longevity and durability.

POWER FOR PEAK PERFORMANCE:

The Hobart Cummins diesel powered GPU’s feature the “B” series 3.9 liter turbocharged diesel engine, combined with a *Hobart designed and manufactured* generator, to maximize GPU performance while maintaining the traditional Hobart reputation for reliability.

CE and EMISSION CERTIFIED:

Hobart teamed with Cummins to specify the most technically advanced engine designed to meet both current and future Emission Standards. International labeling is an added feature of this GPU.

PERFORMANCE FEATURES

- Fully Emission Certified Engine
- Stainless steel fuel tank assures lifetime corrosion prevention
- Delayed stop (for turbo protection) and emergency shutdown are **standard**
- Hobart-designed and manufactured generator offers long life and reliability
- Lift-off doors and pop-out panels provide easy access to engine, generator and control compartments
- Fifth-wheel (turntable) steering for greater maneuverability in congested ramp areas

Hobart Cummins Engine Driven Ground Power Unit

Specifications

Engine

- Cummins B3.9 diesel operating at 2400 RPM
- Operates at 99 Horsepower
- Turbocharged 4-stroke, 4 cylinder Diesel with inline fuel pump
- Full application approval by Cummins Engine Co., Inc.
- 12VDC battery system
- Low oil pressure shutdown
- Intake air restriction indication
- Stop lever governing for precise control and longer life
- Electronic governor system

Environmental

- Operation temperature:
-25° F to +125° F
-31° C to +52° C
- Relative humidity 0-100% noncondensing
- No altitude derating required up to 10,000 feet, when running in normal operating range

Overload

- 125% rated load for 5 minutes, 150% for 10 seconds
- Individual outputs: 217 amps, 5 minutes

Voltage

- Transient voltage recovery time: to within $\pm 1\%$ in 100 milliseconds (no load to rated load)
- Within $\pm 20\%$ deviation upon application/removal of 100% load rating
- Modulation: does not exceed 0.5% of steady state voltage
- Phase voltage displacement with balanced load: 120 ± 1.5
- Phase voltage balance (with unbalanced load) does not exceed 4% with 1/3 rated current on any single phase with other two phases disconnected
- Crest factor: $1,404 \pm 0.07$
- Individual Harmonic Distortion: $< 2\%$
- Total Harmonic Distortion: $< 3\%$ of the fundamental (RMS) voltage

Regulation

- Voltage Regulation: $\pm 1\%$ no load to full load
- Voltage adjust: ± 15 volts
- Three phase average sensing, built-in line drop compensation, up to 5%

Frequency

- Regulation: ± 2 Hz steady state per SAE ARP 5015
- Transient recovery: to within ± 5 Hz in < 2 seconds per SAE ARP 5015
- Modulation: $< 0.25\%$ (1Hz)

Protection

- Meets MIL-STD-704E
- Overvoltage: instantaneous disconnect of load at 180 volts L-N, with inverse time delay down to 125 volts in 2 seconds
- Undervoltage: disconnects output below 100 volts L-N in 7 seconds
- Overfrequency: disconnects output above 420Hz in 5 seconds
- Underfrequency: disconnects output below 370Hz in 7 seconds

Performance

- Rating: 60 kVA, 3 phase, 4 wire, 115/200 volt Wye, continuous
- Meets or exceeds MIL-STD-704E Electrical Power Quality Requirements

Finish

- Anti-corrosive Polyester powder provides excellent weather resistance, flexibility and adhesion, plus a strong resistance to chemical agents such as glycol and skydrol
- Standard colors are high gloss white over black frame and chassis
- Custom colors require a paint chip or swatch for accurate color match

Displays / Instrumentation

Engine Operation

- **Meters:** coolant temperature, ammeter, hour meter, oil pressure, fuel level
- **Indicator lights:** engine circuit on, air cleaner restriction, high coolant temperature, low oil pressure, engine stop delay action, low fuel
- **Switches:** Engine start, engine stop, panel lights
- Delayed shutdown for turbocharger protection

Generator Output

- **Meters:** frequency, ammeter, voltmeter
- **Indicator Lights:** contactors on, overfrequency, underfrequency, overload, overvoltage, undervoltage
- **Switches:** meter select, output contactors control, test/reset

Trailer

- Tire size: 5: 30 x 12 (21" diameter)
- Ground clearance: 14"
- Brakes: Hand/lever actuated

Available Options:

- Block heater kit (120V/60Hz or 240V/50Hz)
- Transformer-Rectifier kit for 28.5VDC
- Automatic towbar height stop
- Spot light
- Alternative mounting configuration: stationary/ fixed
- Special paint scheme
- Indicator beacons (low fuel, operating)
- Second output
- Automatic cold weather ether start kit

Specifications subject to change without notice.

	Length	Width	Height	Weight
Trailer Mounted	96" (244 cm)	67" (170 cm)	62" (157 cm)	2800 lbs. (1270 kg)
Without Trailer	68" (173 cm)	37" (94 cm)	46" (117 cm)	2500 lbs. (1134 kg)

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