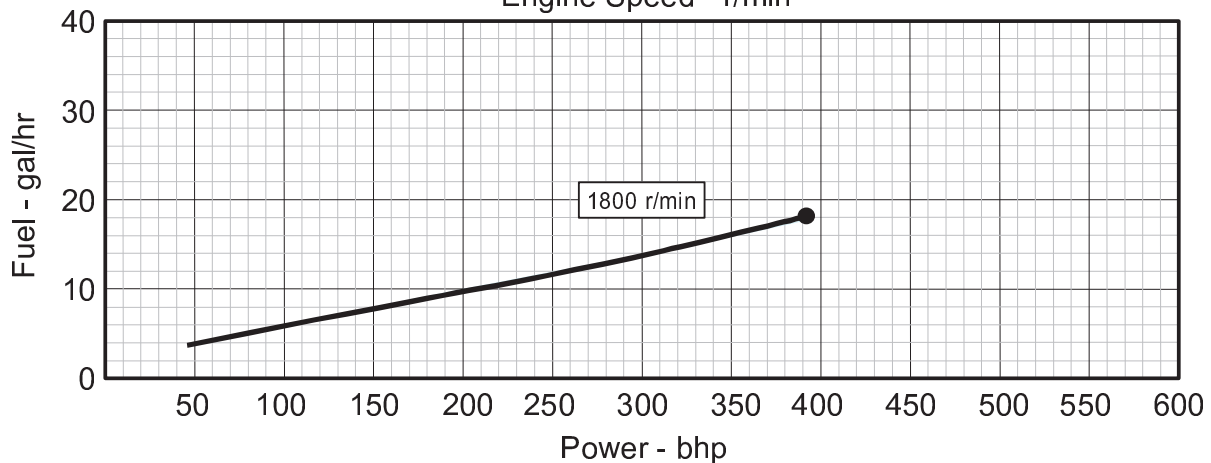
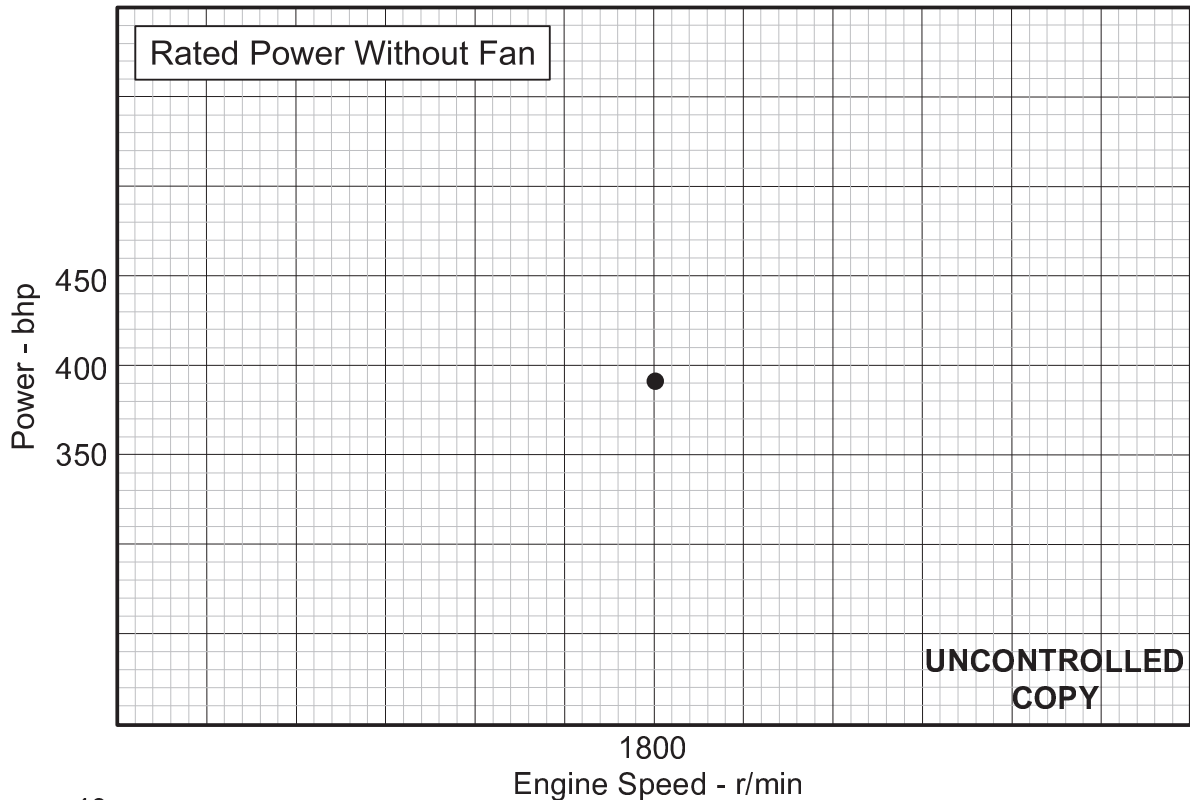




Generator Set Power

Model: Series 60®
Rating: 392 bhp (292 kW) @ 1800 r/min

Certification:
 1997-98 Nonroad
 Prime Power



| | | |
|---|--|--|
| Power output guaranteed within 5% at SAE J1995 conditions: 77°F (25°C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer; Fuel consumption data is based on diesel fuel No.2 with a fuel weight of 7.11 lb/U.S. gal (.85kg/liter) Performance is based on minimum intake and exhaust restrictions Values derived are from currently available data and subject to change without notice | Conversion Factors: Power: kW = bhp x 0.746 Fuel: L/hr = gal/hr x 3.785 | Turbo: TMF55 (1.34 A/R) Injector: 5235695 |
|---|--|--|

Certified by: Paul Aronow

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Performance Curve

GENERATOR SPECIFICATION SHEET

PRIME POWER - 1800 r/min

General Data

| | |
|---------------------------------------|-------------------------|
| Model | 6063-TK35 |
| Number of Cylinders | 6 |
| Bore and Stroke – in. x in. (mm x mm) | 5.12 x 6.30 (130 x 160) |
| Displacement – in. ³ (L) | 778 (12.7) |
| Compression Ratio | 15.0:1 |
| Piston Speed – ft/min (m/min) | 1890 (576) |
| Intake Valves Per Cylinder | 2 |
| Exhaust Valves Per Cylinder | 2 |
| Combustion System | DIRECT INJECTION |
| Engine Type | AIR TO AIR |
| Aspiration | TURBOCHARGED |

Configuration

| | |
|------------------------------|------------------|
| Injection Device | EU1 |
| Turbocharger | TMF55 (1.34 A/R) |
| Charge Air Cooling | AIR TO AIR |
| Engine Crankcase Vent System | OPEN |

Physical Data

| | |
|---|---------------|
| Size: | |
| Length – in. (mm) | 57.2 (1453) |
| Width – in. (mm) | 35 (889) |
| Height – in. (mm) | 54.2 (1377) |
| Weight, Dry – lb (kg) | 2630 (1193) |
| Weight, Wet – lb (kg) | 2752 (1248) |
| Center of Gravity Distance: | |
| From R. F. O. B. (x axis) – in. (mm) | 22.3 (566) |
| Above Crankshaft (y axis) – in. (mm) | 8.6 (218) |
| Right of Crankshaft (z axis) – in. (mm) | -1.4 (-35.6) |
| Installation Drawing | 23515495 REF. |

Mechanical Data

| | |
|---------------------------------------|-------------|
| Thrust Bearing Load Limit – lb (N) | 900 (4000) |
| Maximum Static Bending Moment at Rear | |
| Face of Block – lb-ft (N-m) | 1000 (1356) |
| Additional Mechanical Data | E4-606-32-1 |

Fuel System

| | |
|---|--------------|
| Fuel Injector – Part Number | 5235695 |
| Injection Timing Height – mm | 78.8 |
| Fuel Consumption – lb/hr (kg/hr) | 123.8 (56.1) |
| Fuel Consumption – gal/hr (L/hr) | 17.4 (65.9) |
| Fuel Spill – lb/hr (kg/hr) | 493 (224) |
| Fuel Spill – gal/hr (L/hr) | 69.4 (263) |
| Total Fuel Flow – lb/hr (kg/hr) | 617 (280) |
| Total Fuel Flow – gal/hr (L/hr) | 86.8 (328) |
| Maximum Fuel Inlet Temperature – °F (°C) | 140 (60) |
| Maximum Fuel Pump Suction: | |
| Clean System – in. Hg (kPa) | 6 (20.3) |
| Dirty System – in. Hg (kPa) | 12 (41) |
| Fuel Filter Size, Primary – Microns | 25 |
| Fuel Filter Size, Secondary – Microns | 8 |
| Fuel Spill Restrictive Fitting – in. (mm) | 0.08 (2.03) |

Lubrication System

| | |
|---|-----------|
| Oil Pressure at Rated Speed – lb/in. ² (kPa) | 50 (345) |
| Oil Pressure at Low Idle – lb/in. ² (kPa) | 12 (83) |
| In Pan Oil Temperature – °F | 235 (113) |
| Oil Flow – gal/min (L/min) | 31 (117) |
| Oil Pan Capacity: | |
| High Limit – qt (L) | 32 (30) |
| Low Limit – qt (L) | 26 (25) |
| Total Engine Oil Capacity with Filters – qt (L) | 38 (36) |
| Engine Angularity Limits, Front Up – Degrees | 27 |
| Engine Angularity Limits, Front Down – Degrees | 27 |
| Engine Angularity Limits, Side Tilt – Degrees | 21 |

Electrical System

| | |
|---|--------|
| Recommended Battery Capacity (CCA @ 0°F): | |
| 12 Volt System | 1875 |
| 24 Volt System | 950 |
| Maximum Resistance of Starting Circuit: | |
| 12 Volt System – ohms | 0.0012 |
| 24 Volt System – ohms | 0.002 |

Cooling System

| | |
|--|---------------|
| Engine Heat Rejection – Btu/min (kW) | 5700 (100) † |
| Charge Air Cooler Heat Rejection – Btu/min (kW) | 3100 (54.5) † |
| Engine Radiated Heat – Btu/min (kW) | 2450 (43.1) † |
| Coolant Flow – gal/min (L/min) | 96 (363) |
| Thermostat: | |
| Start to Open | 190 (88) |
| Fully Open | 205 (96) |
| Maximum Water Pump Inlet Restriction – in. Hg (kPa) | 0 (0) |
| Engine Coolant Capacity – qt (L) | 24 (23) |
| Minimum Pressure Cap – lb/in. ² (kPa) | 9 (62) |
| Water Pump Discharge Pressure | |
| (Exclusive Pressure Cap) – lb/in. ² (kPa) | 16 (10) |
| Maximum Top Tank Temperature – °F (°C) | 210 (99) |
| Minimum Top Tank Temperature – °F (°C) | 160 (71) |
| Minimum Coolant Fill Rate – gal/min (L/min) | 3 (11.4) |
| Cooling Index (110 °F Ambient w/H ₂ O @ Sea Level): | |
| Maximum Air to Water Diff. – °F (°C) | 100 (56) |
| Deaeration. Air Handling Capacity – ft ³ /min (m ³ /min) | 0.6 (0.017) |
| Minimum Drawdown Requirement – qt (L) | 4 (3.8) |

Air System

| | |
|--|------------|
| Maximum Ambient to Turbo Compressor Inlet | |
| Temperature Rise – °F (°C) | 30 (16.7) |
| Maximum Air Intake Restriction: | |
| Clean Air Cleaner – in. H ₂ O (kPa) | 12 (3.0) |
| Dirty Air Cleaner – in. H ₂ O (kPa) | 20 (5.0) |
| Engine Air Flow – ft ³ /min (m ³ /min) | 880 (24.9) |
| Manifold Pressure – in. Hg (kPa) | 46.2 (156) |
| Recommended Intake Pipe Outer Diameter – in. (mm) | 5 (127) |
| Maximum Intake Manifold Temperature – °F (°C) | 150 (66) |
| Maximum Crankcase Pressure – in. H ₂ O (kPa) | 3.0 (0.75) |

Exhaust System

| | |
|---|-------------|
| Exhaust Flow – ft ³ /min (m ³ /min) | 2040 (57.8) |
| Exhaust Temperature – °F (°C) | 745 (396) |
| Maximum Back Pressure – in. Hg (kPa) | 3.0 (10.1) |
| Recommended Exhaust Pipe Diameter – in. (mm) | 5 (127) |

Performance Data

| | |
|----------------------------------|--------------|
| Rated Power – bhp (kW) | 392 (292) |
| Rated Speed – r/min | 1800 |
| BMEP – lb/in. ² (kPa) | 222 (1531) |
| Friction Power – fhp (kW) | 58 (43) |
| Altitude Capability – ft (m) | 12000 (3660) |

Fuel Consumption

| | |
|----------------------------------|-------------|
| Fuel – gal/hr (L/hr) – 10% Power | 2.8 (10.4) |
| 25% Power | 5.3 (19.9) |
| 50% Power | 9.3 (35.1) |
| 75% Power | 13.2 (50.1) |
| 100% Power | 17.4 (65.9) |

Emission Data

| | |
|----------------------|-----------------|
| Certification | 1997-98 Nonroad |
| Noise – db(A) @ 1m | 102.3 * |
| Smoke – Bosch Number | Not Available |

| | Load | 10% | 25% | 50% | 75% | 100% | 5 Mode Cycle g/bhp-hr |
|------------------------|------|------|------|------|------|------|-----------------------------|
| NO _x – g/hr | 560 | 1000 | 1325 | 1850 | 2300 | 6.21 | |
| HC – g/hr | 31 | 19.5 | 14.5 | 16 | 16.5 | 0.09 | |
| CO – g/hr | 270 | 105 | 63 | 60 | 70 | 0.51 | |
| PM – g/hr | 5 | 5 | 7 | 9 | 11 | 0.05 | |

* Estimated

† For cooling system design capacity, see standby power rating E4-6065-32-7

All values are at rated speed and power and with standard hardware, unless otherwise noted.

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