

DETROIT DIESEL



Series 40E™ Engines On-Highway Applications



General Specifications

Basic Engine	4 cycle / Turbocharged and Air-to-Air Charge Cooled	
Number of Cylinders	6 In-line	
Bore x Stroke in (mm)	7.6LTA 4.59 in x 4.68 in (117 mm x 119 mm)	8.7LTA 4.59 in x 5.35 in (117 mm x 136 mm)
Compression Ratio	16.4:1	17.2:1
Displacement	466 cu in (7.6L)	530 cu in (8.7L)
Fuel Control	Fully integrated electronic controls	
Fuel System	HEUI fuel injection	
Dimensions: (approx.)		
Length in (mm)	44.69 (1135)	44.69 (1135)
Width in (mm)	27.72 (704)	27.72 (704)
Height in (mm)	39.61 (1006)	39.61 (1006)
Weight (dry), lbs (kg)	1367 (630)	1399 (645)

Detroit Diesel Offers A Complete Line Of Engines For On-Highway Bus/Coach and Truck Markets.

Rated Power Output and Peak Torque

7.6LTA SERIES 40E

- 175 HP (131 kW) @ 2300 RPM¹
460 lb-ft (624 N•m) @ 1400 RPM
- 195 HP (145 kW) @ 2300 RPM¹
520 lb-ft (705 N•m) @ 1400 RPM
- 195 HP (145 kW) @ 2300 RPM²
560 lb-ft (759 N•m) @ 1400 RPM
- 210 HP (157 kW) @ 2300 RPM³
520 lb-ft (705 N•m) @ 1400 RPM*
- 215 HP (160 kW) @ 2300 RPM¹
560 lb-ft (759 N•m) @ 1400 RPM
- 215 HP (160 kW) @ 2300 RPM²
620 lb-ft (841 N•m) @ 1400 RPM
- 230 HP (172 kW) @ 2300 RPM¹
620 lb-ft (841 N•m) @ 1400 RPM
- 230 HP (172 kW) @ 2300 RPM²
660 lb-ft (895 N•m) @ 1400 RPM
- 250 HP (187 kW) @ 2300 RPM¹
660 lb-ft (895 N•m) @ 1400 RPM*
- 250 HP (187 kW) @ 2300 RPM²
800 lb-ft (1085 N•m) @ 1400 RPM

8.7LTA SERIES 40E

- 275 HP (205 kW) @ 2000 RPM⁴
800 lb-ft (1085 N•m) @ 1200 RPM
- 275 HP (205 kW) @ 2000 RPM⁴
860 lb-ft (1166 N•m) @ 1200 RPM
- 280 HP (209 kW) @ 2000 RPM⁴
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM⁴
860 lb-ft (1166 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM⁴
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM⁴
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM⁵
950 lb-ft (1288 N•m) @ 1300 RPM*
- 300 HP (224 kW) @ 2000 RPM⁴
1050 lb-ft (1424 N•m) @ 1200 RPM
- 330 HP (246 kW) @ 2000 RPM⁴
950 lb-ft (1288 N•m) @ 1200 RPM**
- 330 HP (246 kW) @ 2000 RPM⁶
1150 lb-ft (1559 N•m) @ 1300 RPM**

*EURO II On-Highway and not available in the United States

** Limited to a 30% load factor

¹ Governed at 2600 rpm

² Governed at 2400 rpm

³ Governed at 2580 rpm

⁴ Governed at 2200 rpm

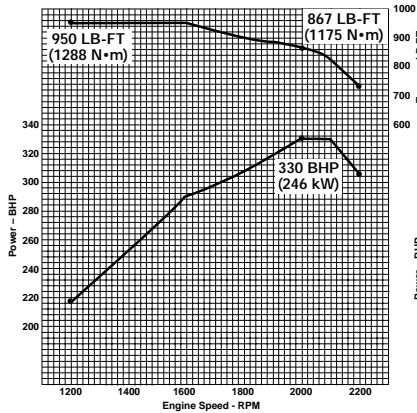
⁵ Governed at 2280 rpm

⁶ Governed at 2100 rpm

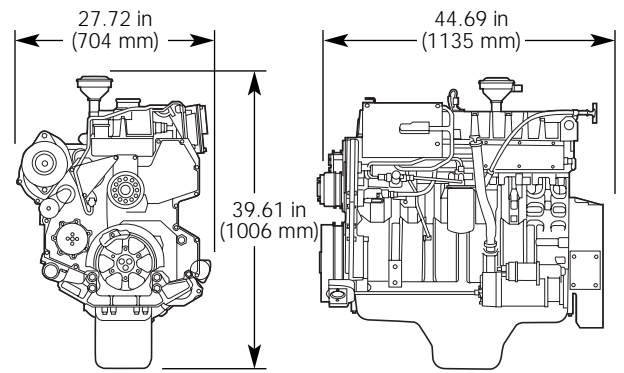
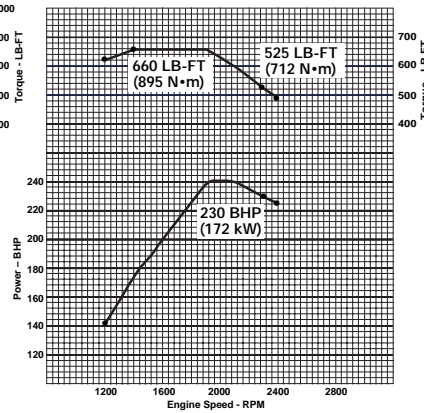


Series 40E

8.7 LTA 330 BHP



7.6 LTA 230 BHP



All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative.

Rating Explanation

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your application.

Power output guaranteed within 5% at SAE J1995 conditions.

Standard Equipment

- Belt tensioner — Polyvee serpentine belt
- Coolant conditioner
- Cylinder liners — Wet replaceable
- Electronic control system — Engine mounted
- Fan drive — 15.1" height
- Flywheel housing — SAE #2
- Flywheel — SAE #2, 14" manual
- Fuel filter
- Hydraulically Actuated Electronically Controlled Unit Injectors (HEUI)
- Lube oil filter — Spin on full flow
- Oil cooler — Engine mounted
- Oil pan — Rear sump
- Rocker cover — Top inlet
- Turbocharger — Wastegate GT type

Optional Equipment

- Air compressor — 13.2 CFM Bendix TuFlo 550
16.0 CFM Bendix TuFlo 750
- Alternator — Delco 21 SI 12 or 24V
- Alternator bracket — Various
- Fan drive — Various
- Flywheel and housing — Various
- Front mounts — Various
- Fuel filter — Various
- Oil pan, filter and dipstick — Various
- PTO adapter — SAE "B", 11 tooth
- Power steering pump — Various
- Pulleys — Accessory drive C/S
- Rocker cover — Side inlet
- Starter motor — Delco 37 MT (12 or 24V)
Delco 42 MT
- Turbocharger — Various
- Water inlet — Various



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CORPORATION



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