



# QSB6.7 Tier 4(i) Cummins Power Unit

Cummins Power Products  
Tier 4 Interim Technology Leader

Our Tier 4 interim technology solution for Power Units builds upon the proven durability of our Tier 3 Power Units. Cummins has the unique advantage in that we design and manufacture the critical engine subsystems and aftertreatment with Cummins Power Products upfitting and validating the Power Unit design to integrate them more efficiently. We optimize the total system for our customers to minimize installation impact and achieve the lowest cost of operation.

## Engine Highlights

- Particulate Matter Reduction by 90%
- NOx Reduction by 45%
- Power Improvement of 10%
- Gain 5% or more in fuel economy
- Cooled Exhaust Gas Recirculation (EGR)
- High Pressure Common Rail (HPCR) fuel system
- Variable Geometry Turbocharger (VGT)
- Direct Flow Air Filtration System

## Aftertreatment Strategies

- Catalyzed Diesel Particulate Filter (DPF)
- Diesel Oxidation Catalyst (DOC)

## Tier 4(i) Power Unit Design Highlights

- Less space claim than Tier 3 Power Units
- Designed to accommodate Tier 4 final requirements in the same space claim with minimal re-engineering
- Over 65 configurations to meet exact requirements of equipment and application
- Fully engineered solution with proper sizing and option selection ensures maximum performance
- Each Power Unit design is fully tested by Cummins Power Products to meet or exceed Cummins application guidelines



## Engine Model Ratings

Engine Model	QSB6.7 T4(i)
Advertised Horsepower	300 HP @ 2500 RPM
Peak Torque	759 LB-FT @ 1800 RPM
Aspiration	Turbocharged/ Charge Air Cooled

Additional Rating may be available.  
Check with your Local Cummins distributor.

EPA Certification  
U.S. EPA Tier 4(i), CARB Tier 4(i), EU Stage IIIA

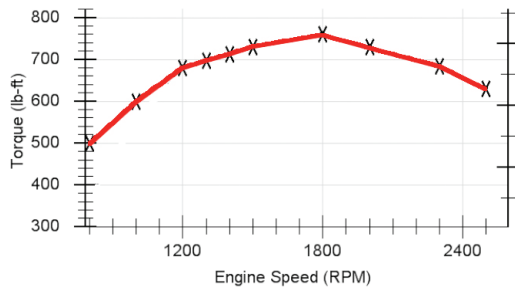
Cummins Warranty  
Coverage for two years or 2000 hours of operation, whichever occurs first, from the date of delivery of the power unit to the first user, or from the date the unit is first leased, rented or loaned, or when the power unit has been operated for 50 hours, whichever comes first. If the 2000 hour limit is exceeded during the first year, coverage continues until the end of the first year.

## Available Features

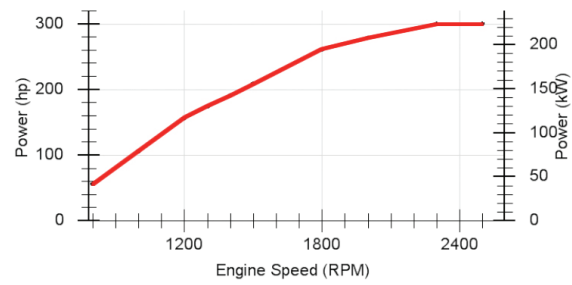
Air Cleaner	Direct Flow with Restriction Indicator
Cooling System	Includes: radiator, fan, shroud, deaeration tank, guarding, plumbing.
Instrument Panel	J1939 Key Switch, Run / Idle Switch, 9-Pin J1939, diagnostic port and isolated panel. Includes CANTrak™ with Oil Pressure, Water Temp., Voltmeter, and Tachometer Gauges.
Radiator Guard	Serpentine Mesh Guard or Punched Guard Available
Enclosure	Skeleton Subframe Overhead Lifiable with or without panels
Exhaust System	DPF silencer
Mounting Options	Pedestal, Extended, Narrow, with or without crossmembers
Electrical Wiring	12V or 24V

Note: All power units MUST include a Decal (DE), Mounting (MM), Packaging (PP), Cooling (RA) & Restriction Indicator (RI).

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Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 in Hg (100 kPa) barometric pressure [300ft (91m) altitude] 77 deg F (25 deg C) inlet air temperature, and 0.30 in Hg (1kPa) water vapor pressure with No. 2 diesel fuel.

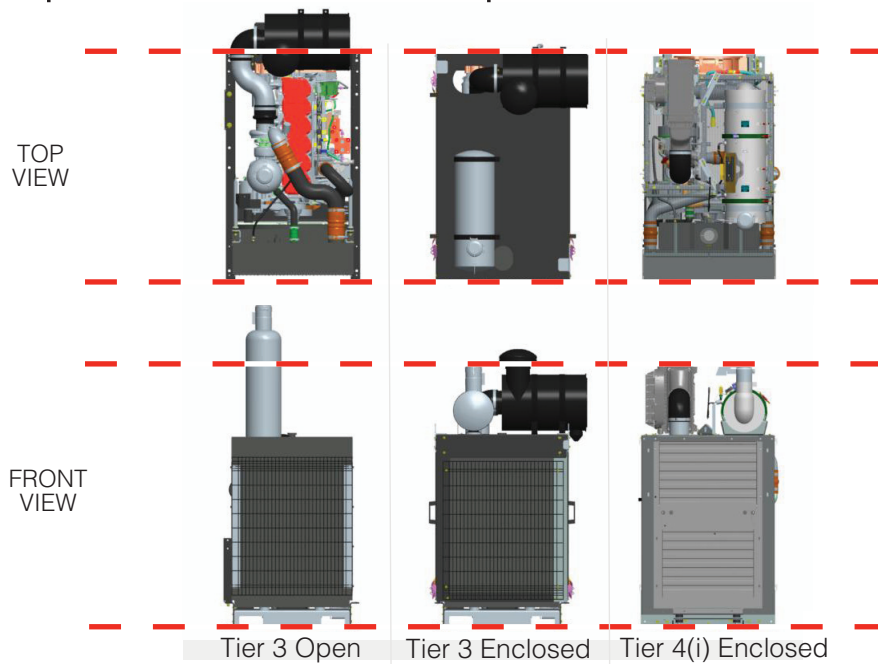


All data is based on the engine operating with fuel system, water pump, and 14.96 in H<sub>2</sub>O (3.72 kPa) inlet air restriction with 3.94 in (100 mm) inner diameter, and with 6.91 in Hg (23 kPa) exhaust restriction with 2.95 in (75 mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolants as 50% ethylene glycol/50% water. All data is subject to change without notice.

## Specifications

Advertised Horsepower		300 bhp	224 kW
Peak Torque		759 lb-ft	1059 Nm
Number of Cylinders		6	6
Displacement		409 cu in.	6.7 Liters
Bore and Stroke		4.2 in. x 4.9 in.	107 mm x 124 mm
Aspiration		Turbocharged / Charge Air Cooled	
Oil System Capacity		13.0 - 25.3 U.S. Quarts	12.3 - 23.9 Liters
Power Unit Weight (Dry)	Open	2200 lbs.	1000 kg
	Enclosed	2500 lbs.	1134 kg
Total Cooling System Capacity		36.0 U.S. Quarts	34.1 Liters
Power Unit Size: (Open/Enclosed)	Length	57.5 in.	1460.5 mm
	Width	36.3 in.	920.8 mm
	Height	66.5 in.	1689.1 mm

## Space Claim Comparison



- Tier 4(i) Design has better space claim than Tier 3 Design
- T3 Open vs. Tier 4(i) Enclosed
  - 23% reduction in height
  - 19% reduction in length
- T3 Enclosed vs. Tier 4(i) Enclosed
  - 6% reduction in height
  - 5% reduction in length
- Tier 4(i) space claim to accommodate Tier 4 final requirements with minimal re-engineering

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