



EVERY POWER.

QSB4.5

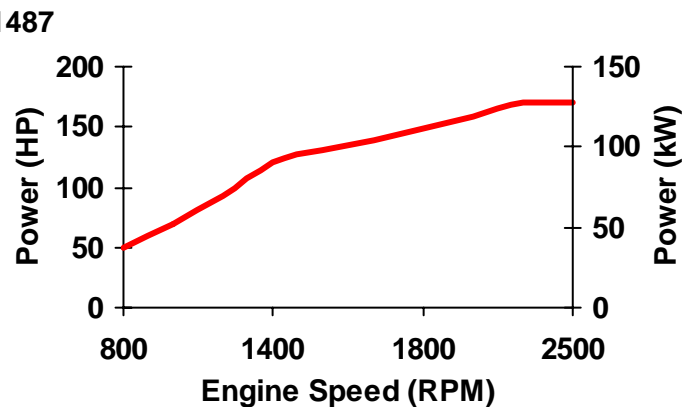
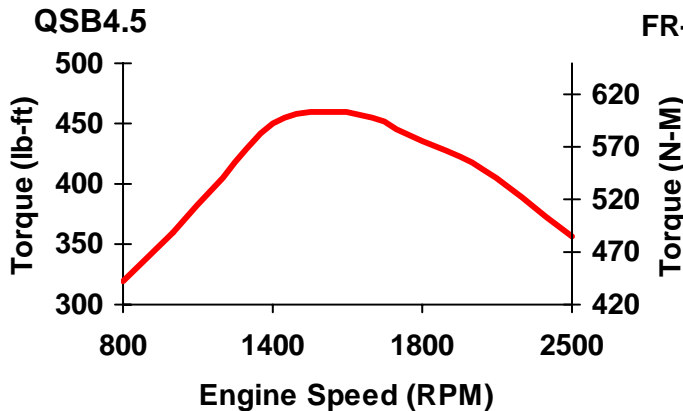
QSB4.5 Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER	PEAK TORQUE	ASPIRATION
QSB4.5*	170 HP @ 2500 RPM	459 LB-FT @ 1500 RPM	Turbocharged/Charge Air Cooler
QSB4.5	160 HP @ 2500 RPM	460 LB-FT @ 1500 RPM	Turbocharged/Charge Air Cooler
QSB4.5	130 HP @ 2500 RPM	459 LB-FT @ 1500 RPM	Turbocharged/Charge Air Cooler
QSB4.5	110 HP @ 2500 RPM	360 LB-FT @ 1500 RPM	Turbocharged/Charge Air Cooler

* RESTRICTED RATINGS

ADDITIONAL RATINGS ARE AVAILABLE. CHECK WITH YOUR CUMMINS DISTRIBUTOR.

Emission Certification: U.S. EPA Tier 3, CARB Tier 3, EU Stage IIIA



Specifications

Advertised Horsepower		110-170 BHP	74 - 127 kW
Peak Torque		360-460 LB-FT	489 - 624 NM
Number of Cylinders		4	
Displacement		275 cu in	4.5 Liters
Bore and Stroke		4.02 in. x 5.42 in.	102 mm x 120 mm
Aspiration		Turbocharged and Charge Air Cooled	
Oil System Capacity		11.6 U.S. Quarts	10.9 Liters
Power Unit Weight (Dry)	Open	1270 lbs	576 kg
	Enclosed	1461 lbs	673 kg
Total Cooling System Capacity		20 U.S. Quarts	18.9 Liters
Power Unit Size:	Open	Length	57.45 in. / 1459 mm
		Width	31.88 in. / 810 mm
		Height	65.34 in. / 1660 mm
	Enclosed	Length	48 in. / 1219 mm
		Width	31.88 in. / 810 mm
		Height	61.82 in. / 1570 mm

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 9.84 in H₂O (2.449 kPa) inlet air restriction with 3.94 in (100 mm) inner diameter, and with 1.97 in Hg (7 kPa) exhaust restriction with 2.95 in (75 mm) inner diameter; not included are alternator, fan, optional equipment and driven components.

The engine may be operated without changing the fuel setting up to 7,500 ft (2,286 m) altitude and 100 deg F (38 deg C). For sustained operation at high altitudes, the fuel rate of the engine should be adjusted to limit performance by 4% per 300 m (1000 ft.) above 7,500 ft (2,286 m) altitude.

CUMMINS POWER PRODUCTS

KEY FEATURES

QSB4.5

Holset Turbochargers Wastegated designs optimize operations for improved response across the torque curves.

Full-Authority Electronic Controls Optimized engine operation, diagnostics, prognostics and more. Industry standard datalinks.

Parent Bore Cylinder Block Structurally advanced design handles high pressures with greater durability.

Quiet operation makes the B Series engine suitable in many environments.

Air Cleaner Heavy duty industrial air cleaners with aluminized tubing. Safety elements included within the air cleaners and restriction indicators available.

Baserail Mounting Made of heavy duty formed C channel. All metal components are powder coated. Passes a 1000 hours salt water test.

Cooling System Heavy duty radiator assembly with jacket water and charge air cooler incorporated within assembly. Sucker or blower fan arrangements available. Aluminized charge air cooler tubes and painted water tubes. Radiator shroud, fan and belt guarding included. Radiator is isolated.

Instrument Panel Operates on 12 or 24 volt using the Murphy Powerview Module. J1939 communication with a 9 pin diagnostic connection. Shutdown protection provided through the ECM. Isolated inner panel within an outer protective lockable box. Available on right or left hand side of unit. Nema panels also available.

Clutches Over center clutches available depending on application. Provided primarily by Twin Disc.

Enclosure Fully enclosed power unit available. Enclosure housings uses 12-gauge steel. All components are powder-coated, which increases chip resistance. Passes a 1,000-hour salt spray tests. Components are bolted, not welded, so they resist mounting distortion and are easier to service. Removable side doors for easy engine serviceability.

Exhaust Heavy duty industrial muffler provided.

Cummins Industrial 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.

CUMMINS POWER PRODUCTS

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Available Options	Standard	Optional
Air Cleaner 25 g/cfm w / Safety Element - Open Rear Mount	■	
Air Cleaner 25 g/cfm w / Safety Element - Enclosed Top Mount	■	
Tw in Disc Clutch		■
Decal Option / parts Manual	■	
Engine Harness Option	■	
Linear Throttle Control		■
Full Enclosure	■	
Electrical Wiring 12 Volt	■	
Electrical Wiring 24 Volt		■
Heater Starting Aid(grid/glow plug)		■
Instrument panel mount - Open	■	
Instrument Panel - Pow erview ; Includes Murphy Pow erview w / oil pressure, w ater temp., voltmeter, and tachometer gauges, key sw itch,run/idle sw itch, 9 pin J1939 diagnostic port, and isolated panel w ithin enclosed lockable	■	
Instrument Panel - Sw itch Gauges; Includes Murphy shutdow n, electro-mechanical oil pressure and w ater temp., voltmeter, and tachometer / hourmeter gauges, key sw itch, isolated panel w ithin enclosed lockable box.		■
Instrument Panel - Nema Enclosure		■
12 Foot Extension Harness		■
24 Foot Extension Harness		■
Baserail Engine Sub Base non-isolated	■	
Baserail Engine Sub Base Isolated		■
Baserail Engine Sub Base - <u>Special Isolated Side Load</u>		■
Packing / Shipping Skid	■	
Cooling System - Sucker; Includes Radiator, fan, shroud, positive deaeration tank, guarding, tubes.	■	
Cooling System - Blow er; Includes radiator, fan, shroud, positive deaeration tank, guarding, tubes.		■
Restriction Indicator - Air Cleaner		■
Stone Guard - Grill Type	■	
Stone Guard - Serpentine Type		■
Coolant Level Safety Shutdow n	■	
Exhaust System	■	