

# 4BT3.9-G4



## S P E C I F I C A T I O N S



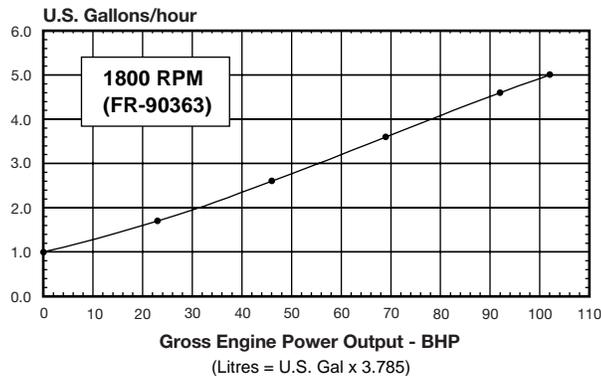
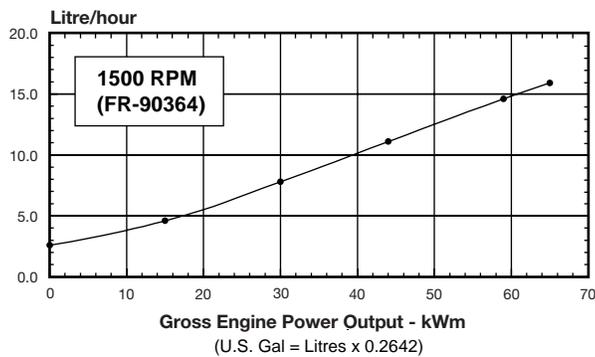
**4BT3.9-G4**

**CPL: 2377**

**Curve: FR-90364 @ 1500 RPM**

**Fuel Consumption**

**FR-90363 @ 1800 RPM**



**PERFORMANCE:**

**Standard Conditions:**

Data Shown Above Are Based On:

- Engine operating with fuel system, water pump, lubricating oil pump, air cleaner and exhaust silencer; not included are battery charging alternator, fan and optional driven components.
- Engine operating with diesel fuel corresponding to grade No. 2D per ASTM D975.
- ISO-3046, Part 1, Standard Reference Conditions of: 100 kPa [29.53 in Hg] barometric pressure (110 m [361 ft] altitude), 25 °C [77 °F] air temperature and a relative humidity of 30%.

**NOTES:**

- Cummins Engine Company recommends that Cummins engines be operated at a minimum load of 30% of their respective Standby Power rating.

### SPECIFICATIONS

**4-Stroke Cycle, Turbocharged, In-line, 4-Cylinder Diesel Engine**

**1500 RPM Engine Output**

Standby Power Rating	<b>65 kWm*</b>	<b>[ 87 BHP]</b>
Prime Power Rating	<b>59 kWm*</b>	<b>[ 79 BHP]</b>
Continuous Power Rating	<b>41 kWm*</b>	<b>[ 55 BHP]</b>

**1800 RPM Engine Output**

Standby Power Rating	<b>76 kWm*</b>	<b>[102 BHP]</b>
Prime Power Rating	<b>69 kWm*</b>	<b>[ 93 BHP]</b>
Continuous Power Rating	<b>48 kWm*</b>	<b>[ 64 BHP]</b>

\* Refers to gross power available from engine, not generator set.

**General Engine Data:**

Bore and Stroke	102x120 mm	[4.02x4.72 in.]
Displacement	3.9 L	[239 cu. in.]
Lube System Oil Capacity	10.9 L	[2.9 U.S. gal.]
Coolant Capacity	7.2 L	[1.9 U.S. gal.]
Net Dry Weight with Standard Accessories	321 kg	[707 lb.]

**Approx. Overall Dimensions:**

Width	593 mm	[23.35 in.]
Length	775 mm	[30.50 in.]
Height	962 mm	[37.87 in.]

**RATING GUIDELINES:**

Based on ISO8528 and defined in Cummins Power Rating Application Guidelines. Ref: AEB 26.02.

**OPERATION at ELEVATED TEMPERATURE and ALTITUDE:**

The engine may be operated at:

- 1800 RPM up to: 1220 m [4000 ft] and 40 °C [104 °F] without power deration.
- 1500 RPM up to: 600 m [1970 ft] and 40 °C [104 °F] without power deration.

For sustained operation above these conditions derate by: 4% per 300 m [1,000 ft] and 2% per 11 °C [1% per 10 °F].

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## S P E C I F I C A T I O N S

### Design Features:

#### Accessory Drive

Single Poly Vee belt drive for fan, alternator and water pump, with self-tensioning idler for minimum maintenance.

#### Complete Rebuildability

Cylinder block has multiple rebore capability. Service cylinder sleeves and valve guides are also available.

#### Cast Iron Skirted Block

With five main bearings for maximum strength and rigidity, low weight and optimum crankshaft support.

#### Direct Injection Fuel System

For thorough mixing of air and fuel to ensure low fuel consumption; Stanadyne DB4 injection pump features advance mechanism for reliable cold starting.

#### Filters

Fleetguard spin-on fuel filter and full-flow lubricating oil filter.

#### Forged Steel, I-Beam Section Connecting Rod

With angle split cap-to-rod interface and capscrew attachment for maximum structural strength and ease of service.

#### Turbocharger

Holset HX30 turbocharger mounted at top of engine. Provides increased power, improved fuel economy, altitude compensation and lower smoke and noise levels.

### Emissions Certification:

**EPA/CARB:** Complies with Mobile Off-Highway standard per ISO 8178 D2.

**TA-Luft:** Complies with 4 gram NOx standard at Prime Power Rating.

*See Exhaust Emissions Data Sheets for further details.*

### Optional Equipment:

Please contact your local Cummins representative for additional information regarding engine options.

*Cummins has always been a pioneer in product improvement. Thus, specifications may change without notice. Illustrations may include optional equipment.*

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