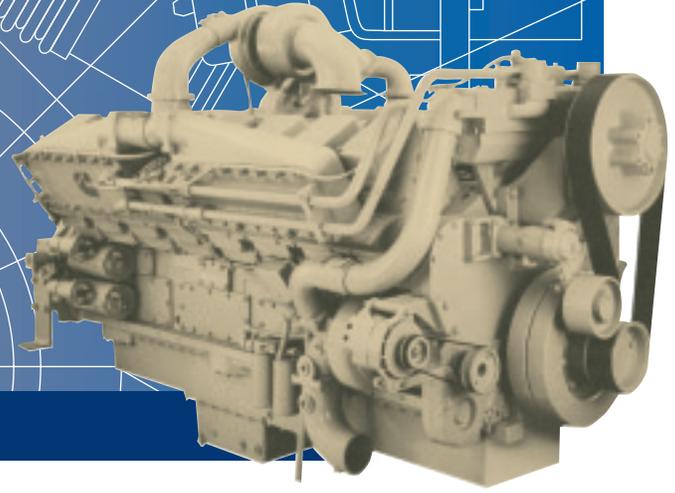


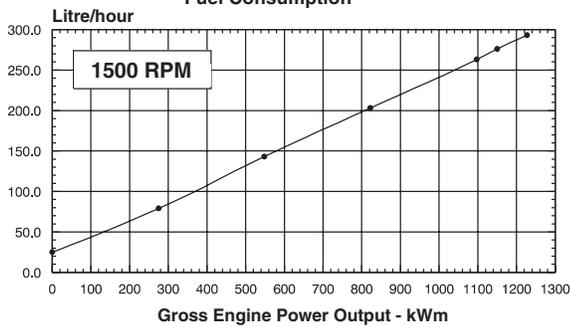
KTA50-G3



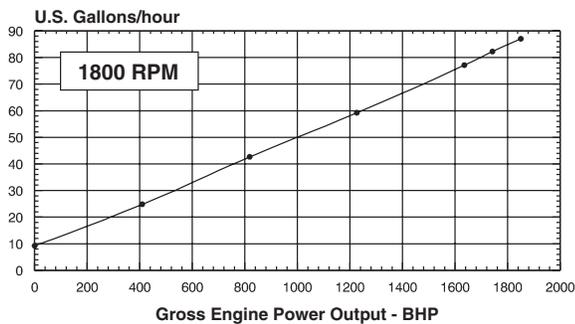
S P E C I F I C A T I O N S



KTA50-G3 **CPL: 2227** **Curve: FR-6250**
Fuel Consumption



(U.S. Gal = Litres x 0.2642)



(Litres = U.S. Gal x 3.785)

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: 29.53 in. Hg. [100 kPa] barometric pressure (361 ft. [110 m] altitude), 77 °F [25 °C] 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, & Jacket Water Aftercooled, V-16-Cylinder Diesel Engine

1500 RPM Engine Output

Standby Power	1227 kWm*	1645 BHP
Limited Time Prime Power	1150 kWm*	1541 BHP
Unlimited Time Prime Power	1097 kWm*	1470 BHP
Continuous Power Rating	900 kWm*	1206 BHP

1800 RPM Engine Output

Standby Power	1380 kWm*	1850 BHP
Limited Time Prime Power	1300 kWm*	1742 BHP
Unlimited Time Prime Power	1220 kWm*	1635 BHP
Continuous Power Rating	1000 kWm*	1340 BHP

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

General Engine Data:

Bore and Stroke	159x159 mm	[6.25x6.25 in.]
Displacement	50.3 L	[3067 cu. in.]
**Lube System Oil Capacity	177 L	[46.7 U.S. gal.]
Coolant Capacity	161 L	[42.5 U.S. gal.]
Net Weight with Standard Accessories, Dry	5360 kg	[11,820 lb.]

Approx. Overall Dimensions:

Width	1415 mm	[55.7 in.]
Length (Fan to Flywheel)	2885 mm	[113.6 in.]
Height	1766 mm	[69.5 in.]

** With Oil Pan Option (OP 6024) and Including Bypass Filter.

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 in Standby at:

- 1500 RPM up to: 4600 ft. (1400 m) and 104 °F [40 °C] without power deration.
- 1800 RPM up to: 5800 ft. (1760 m) and 104 °F [40 °C] without power deration.

KTA50-G3



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

Design Features:

Aftercooler

Large capacity aftercoolers result in cooler, denser intake air for more efficient combustion and reduced internal stresses for longer life. Aftercoolers are plumbed into the engine coolant system, eliminating need for special plumbing.

Cooling System

Gear driven centrifugal water pump. Large volume water passages provide even flow of coolant around cylinder liners, valves, and injectors. Four modulating bypass thermostats regulate coolant temperature. Spin-on corrosion resistors check rust and corrosion, control acidity and remove impurities. Jacket water aftercooled engine.

Lubrication

Large capacity gear pump provides pressure lubrication to all bearings and oil supply for piston cooling. All pressure lines are internal drilled passages in block and heads. Oil cooler, full-flow filters, and optional bypass filters maintain oil condition and maximize oil and engine life.

Pistons

Aluminum alloy, cam ground and barrel shaped to compensate for thermal expansion assures precise fit at operating temperatures. Grooved skirt finish provides superior lubrication. Oil cooled for rapid heat dissipation. Two compression and one oil ring.

Optional Equipment:

- Fan Drives
- Positive Head Fuel Transfer System
- Cummins Branded Electric Starters and Alternators
- Electric Fuel Control Governing System "CE" Compliant
- Duplex Changeover Oil and Fuel Filter Heads
- Engine Mounted Air Cleaners
- SAE "0" and "00" Flywheel and Flywheel Housings
- Large Capacity Oil Pans

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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