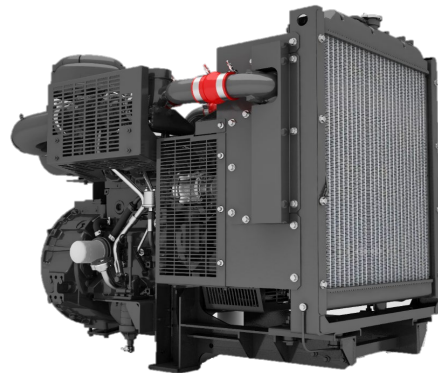




4BTAA3.3-G12

EPA Tier 3



Description

The 4BTAA3.3 engine features a direct fuel injection system for a cleaner, quieter, more fuel-efficient performance. It's compact and lightweight engine design provides optimal logistics efficiency. The engine also offers outstanding value in terms of installation simplicity and servicing, with valve clearance checks not required until 2,000 hours, twice the industry standard.

The Coolpac package performs well under severe duty cycles and offers excellent fuel consumption, substantial cooling capability, low noise, low weight, and high-power output per litre, for best in class reliability.

Features

Cummins® Medium-duty Engine—Rugged 4-cycle diesel delivers reliable power and fast response to load changes.

CoolPac Integrated Design—Products are supplied complete with integral set-mounted radiator system and air cleaner kit for a complete power package.

Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability, while simplifying facility design requirements for rejected heat.

Bosch Fuel Injection Pump—features advanced mechanism for reliable cold starting and boasts best in class mechanical governing regulation.



This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

This equipment has been designed and tested to meet EU product safety regulations. Material compliance declaration is available upon request

Top-mounted Holset Turbocharger—Cummins optimized turbocharger delivers increased power, fuel economy and lower smoke and noise levels.

Fuel Filter with Water-in-Fuel (WIF) Sensor—The fuel filter element is a 10-micron spin-on filter, and includes a water separator, water-in-fuel (WIF) sensor, and a WIF sensor harness.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

1800 rpm (60 Hz Ratings)

Gross engine output			Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
74/99	67/90	60/80	69/94	63/86	56/76	60	75	55	68	49	61

General Engine Data

Fuel Rating	FR95442
Type	Inline 4-Cylinder Diesel, Turbocharged & Charge Air Cooled
Bore mm	95 mm (3.74 in.)
Stroke mm	115 mm (4.53 in.)
Displacement litre	3.3 litre (199 in. ³)
Cylinder block	Cast iron, 4 cylinder
Battery charging alternator	36 amps
Starting voltage	12 volt
Fuel system	Bosch Mechanical
Fuel filter	Spin on fuel filters with water separator
Lube oil filter type(s)	Spin on full flow filter
Lube oil capacity (l)	7.9
Flywheel dimensions	SAE 3

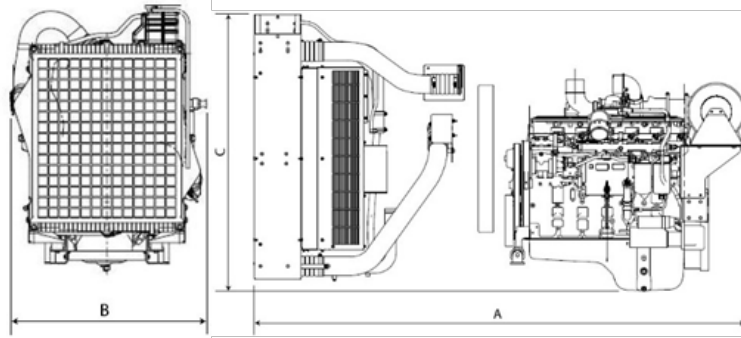
Coolpac Performance Data

Cooling system design	Jacket Water cooled
Coolant ratio	50% (Ethylene Glycol) : 50% (Water)
Coolant capacity (l)	13
Limiting ambient temp.** (°C)	55
Fan power (kWm)	3.46
Cooling system air flow (m ³ /s)**	1.87
Air cleaner type	Normal Duty with restriction indicator

** @ 13 mm H₂O

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	74	99	20	5.3
Prime Power				
100	67	90	18	4.7
75	50	68	13	3.5
50	34	45	9	2.3
25	17	23	5	1.3
Continuous Power				
100	60	80	16	4.1



*Drawing for illustration purposes only.

Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
1237	873	1030	332

Ratings Definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

For more information contact your local Cummins distributor
or visit power.cummins.com

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