

Specification sheet



4BTAA3.3-G14

EU Stage IIIA Certified



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.

Stanadyne DB4 injection pump—features advanced mechanism for reliable cold starting and boasts best in class mechanical governing regulation.

Top-mounted Holset HX30 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.

Intake Air Heater—

For robust cold-start performance, a grid type intake heater is standard on the 4BTAA3.3 engine. This heater is located between the intake manifold and intake air connection, and is controlled by a timer module, via a relay. The timer module is provided with the engine.

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.



This equipment is EU RoHS compliant and has been built to comply with CE certification requirement



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

1500 rpm (50 Hz ratings)

Gross engine output			Net engine output			Typical generator set output			
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA
63/84	58/78	50/67	59/80	53/75	45/62	53	66	48	60

General engine data

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	35 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 3/11.5

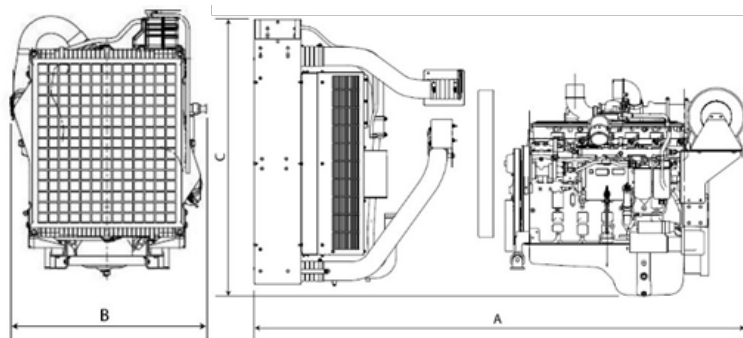
Coolpac performance data

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)	3.3
Cooling system air flow (m ³ /s)**	1.971
Air cleaner type	Dry replaceable element with restriction indicator

** @ 13 mm H₂O

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US gal/hr
Standby Power				
100	63	84	16	4.3
Prime Power				
100	58	78	15	4.1
75	44	59	11	3.0
50	29	39	8	2.1
25	15	20	4	1.2
Continuous Power				
100	50	67	13	3.5



Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
1237	795	1002	333

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.