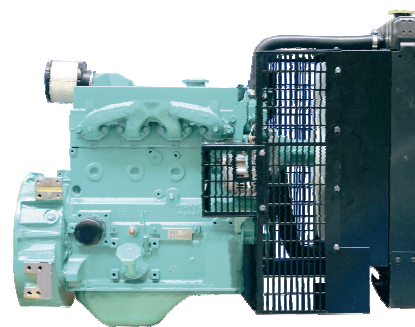


# 4BT3.3-G2



> Specification sheet

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## Description

The B3.3 has all the strength and reliability the genset industry has come to expect from the B Series range but in a smaller, lighter and more economical package. The B3.3 features direct fuel injection, resulting in cleaner, quieter and more fuel efficient performance. With a highly compact 4 cylinder envelope and extremely low heat-rejection, the engine offers a high degree of installation flexibility.



This engine has been built to comply with CE certification.



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

## Features

**Bosch-Zexel VE** - Direct injection in-line pump for cleaner, more efficient fuel consumption.

**Parent Bore Block** - Deep, stiff crankcase and optimised rib arrangement to enhance strength and reduce noise.

**12 volt electrics package** as standard, with starter, alternator and fuel solenoid.

**Minimal derate** for high altitude or high ambient applications.

**Shallow oil pan** and single spin-on oil filter.

**SAE '4'** flywheel housing.

**Coolpac Integrated Design** - Products are supplied complete with cooling package 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.

**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.

## 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)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
51/68	46/61	N/A	49/65	46/61	N/A	44	55	40	50	N/A	N/A

## 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
61/82	54/72	N/A	59/79	53/71	N/A	50	63	45	56	N/A	N/A

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## General Engine Data

Type	4 cycle, in-line, naturally aspirated
Bore mm	95 mm (3.74 in.)
Stroke mm	115 mm (4.53 in.)
Displacement Litre	3.3 litre (199 in. <sup>3</sup> )
Cylinder Block	Cast iron, 4 cylinder
Battery Charging Alternator	45 amps
Starting Voltage	12 volt, negative ground
Fuel System	Direct injection
Fuel Filter	Spin-on fuel filters with water separator
Lube Oil Filter Type(s)	Spin-on full flow filter
Lube Oil Capacity (l)	7.5
Flywheel Dimensions	4/11

## Coolpac Performance Data

Cooling System Design	Jacket Water
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	9.1
Limiting Ambient Temp.**	44.2
Fan Power	0.7
Cooling System Air Flow (m <sup>3</sup> /s)**	0.9
Air Cleaner Type	Dry replaceable element with restriction indicator

\*\* @ 13 mm H<sub>2</sub>O

## Weight & Dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
1069	625	870	299

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	51	68	12.9	3.4
<b>Prime Power</b>				
100	46	62	11	3.3
75	35	46	8.4	2.2
50	23	31	5.9	1.5
25	12	15	3.5	0.9
<b>Continuous Power</b>				
100	N/A	N/A	N/A	N/A

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	61	82	15.6	4.1
<b>Prime Power</b>				
100	54	72	13.4	3.5
75	41	54	10	2.6
50	27	36	7	1.9
25	14	18	4.2	1.2
<b>Continuous Power</b>				
100	N/A	N/A	N/A	N/A

## Cummins G-Drive Engines

**Asia Pacific**  
10 Toh Guan Road  
#07-01  
TT International Tradepark  
Singapore 608838  
Phone 65 6417 2388  
Fax 65 6417 2399

**Europe, CIS, Middle East and Africa**  
Manston Park Columbus Ave  
Manston Ramsgate  
Kent CT12 5BF, UK  
Phone 44 1843 255000  
Fax 44 1843 255902

**Latin America**  
Rua Jati, 310, Cumbica  
Guarulhos, SP 07180-900  
Brazil  
Phone 55 11 2186 4552  
Fax 55 11 2186 4729

**Mexico**  
Cummins S. de R.L. de C.V.  
Eje 122 No. 200 Zona Industrial  
San Luis Potosi, S.L.P. 78090  
Mexico  
Phone 52 444 870 6700  
Fax 52 444 870 6811

**North America**  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA  
Phone 1 763 574 5000  
USA Toll-free 1 877 769 7669  
Fax 1 763 574 5298

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## Ratings Definitions

### Emergency Standby Power (ESP):

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 3046, AS 2789, DIN 6271 and BS 5514.

### Limited-Time Running Power (LTP):

Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

### Prime Power (PRP):

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.

### Base Load (Continuous) Power (COP):

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.

