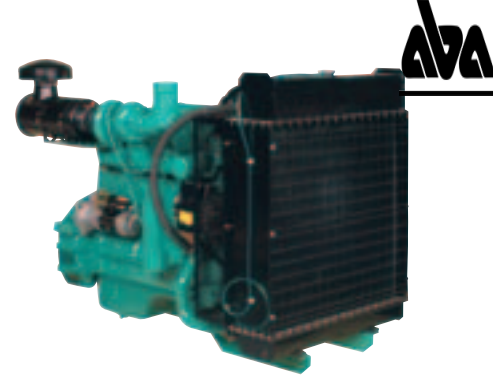


# 6CTAA8.3-G2



## > Specification sheet

Our energy working for you.™



### Description

C-Series engines have established an unrivalled reputation for reliability. Engines in the series incorporate features to reduce maintenance and enhance performance in order to meet the most demanding requirements of generator set operation.



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

**Coolpac Integrated Design** - Supplied with cooling package and air cleaner kit for a complete power package.

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

**Inline-type Bosch P-Series pump** operates at high injection pressures for cleaner combustion and lower emissions.

**Spin-on fuel filter** and full-flow lubricating oil filter.

**Top mounted Holset HX40W turbo-charger** for increased power, fuel economy, and lower smoke and noise levels.

**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
203/272	183/245	149/200	193/259	173/232	139/232	176	220	160	200	120	150

### 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
237/318	213/286	175/235	224/300	200/268	162/217	200	250	182	228	144	180

Our energy working for you.™

[www.cumminsdrive.com](http://www.cumminsdrive.com)

©2007 | Cummins G-Drive Engines | Specifications subject to change without notice | Cummins are registered trademarks of Cummins Inc. (01/08) (GDSS108-RevA)



## General Engine Data

Type	4 cycle, in-line, Turbo Charged
Bore mm	114 mm (4.49 in.)
Stroke mm	135 mm (5.32 in.)
Displacement Litre	8.3 litre (505.0 in. <sup>3</sup> )
Cylinder Block	Cast iron, 6 cylinder
Battery Charging Alternator	60 amps
Starting Voltage	24 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)	23.8
Flywheel Dimensions	2/11.5

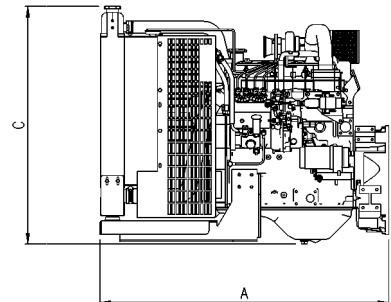
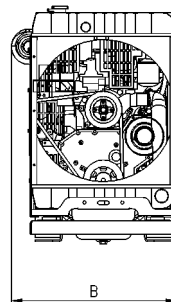
## Coolpac Performance Data

Cooling System Design	Air-Air Charge Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	12.0
Limiting Ambient Temp.**	48.0
Fan Power	1.3
Cooling system air flow (m <sup>3</sup> /s)**	48.0
Air Cleaner Type	Dry replaceable element with restriction indicator

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

## Weights & Dimension

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1440	910	1240	794



## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	203	272	51	13.5
<b>Prime Power</b>				
100	183	245	46	12
75	137	184	34	9
50	50	91	23	6
25	46	61	12	3.3
<b>Continuous Power</b>				
100	149	200	36	9.6

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	237	317	64	16.8
<b>Prime Power</b>				
100	213	285	56	14.8
75	160	214	41	10.9
50	106	143	28	7.3
25	53	71	15	4
<b>Continuous Power</b>				
100	175	235	44	11.6

## 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 Potosí, 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

## Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2007 | Cummins G-Drive Engines | Specifications subject to change without notice | Cummins are registered trademarks of Cummins Inc. (01/08) (GDSS108-RevA)

## 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 8528. Fuel Stop power 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.