B3.3-G

32-61 kWm

The new B3.3-G has all the inherent strength and reliability the genset industry has come to expect from a Cummins B Series engine - but smaller, lighter and even more economical. Significantly, the high power density characteristic of the larger B3.9-G and B5.9-G engines also extend down to this smallest ever Cummins engine.

Unlike many comparable engines of this size, the B3.3-G 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. With more power available and less cooling required, genset packaging can be made simpler, lighter and more compact. For manufacturers of small standby gensets and prime power rental units requiring mobility, the B3.3-G will provide an ideal power solution.

Although new to the genset industry, the 3.3 litre engine design has already established an enviable reputation for reliability in construction equipment working under severe duty cycles. Now all that well proven performance is available for the compact genset market, including features such as a 50/60 Hz dual rating operated by a simple fuel pump adjustment. A high compression ratio and integral timing advance offers genset users a quick start capability, unaided to –4ºC.

The B3.3-G offers outstanding value in terms of installation simplicity, fuel economy and servicing. For example, valve clearance checks are required at 2,000 hour intervals – twice the industry norm. Plus the B3.3-G engine is backed by the largest parts and service network in the business, with some 4,500 locations world-wide.

LOW EMISSIONS. LOW NOISE.

Efficient air handling and an optimised combustion chamber design enable the B3.3-G to meet applicable US Environmental Protection Agency (EPA) MOH and CARB emission standards. The capability to meet future emission regulation is already designed-in, reflecting the advanced concept of the engine.

Direct fuel injection and an isolated valve cover help to reduce noise levels, well below typical levels for this class of engine. Significantly, for the genset manufacturer this reduces the level of sound proofing required to provide a more cost-effective installation.

SPECIFICATIONS

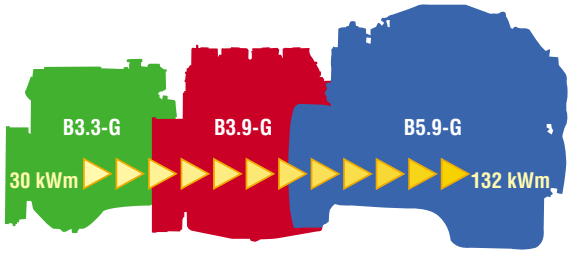
3.3 litre 8-valve In-line 4-cylinder Direct Injection

B3.3-G1 Naturally Aspirated		
	1500 rpm (50 Hz)	1800 rpm (60 Hz)
Standby	37 kWm	42 kWm
Prime power	32 kWm	38 kWm
B3.3-G2 Turbocharged		
	1500 rpm (50 Hz)	1800 rpm (60 Hz)
Standby	51 kWm	61 kWm
Prime power	46 kWm	54 kWm

	B3.3-G1	**B3.3-G2**
Length	732 mm	732 mm
Width	581 mm	622 mm
Height	753 mm	815 mm
Weight (dry)	250 kg	265 kg

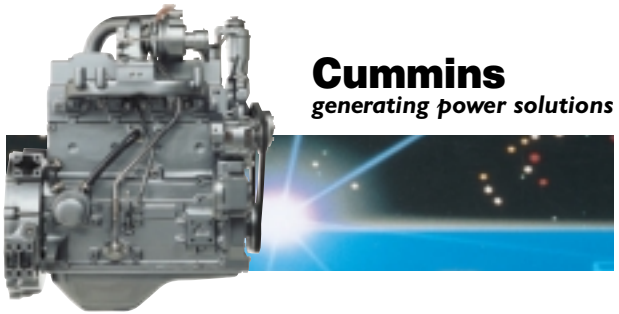
- Bosch-Zexel VE direct injection in-line pump for cleaner, more efficient fuel consumption.
- Parent bore block with deep, stiff crankcase and optimised rib arrangement to enhance strength and reduce noise.
- Simple jacket water cooling system and cross flow cylinder head ensures even temperature distribution even under harsh operating conditions
- 12 volt electrics package as standard, with starter, alternator and fuel solenoid.
- Minimal derate for high altitude or high ambient applications.
- 750 hour extended oil service intervals for the naturally aspirated B3.3-G1, while the higher rated B3.3G-2 with turbocharging offers 375 hour intervals.
- Shallow oil pan and single spin-on oil filter
- SAE ‘4’ flywheel housing

CUMMINS B SERIES



In-line 4-cylinder	**In-line 4-cylinder**	**In-line 6-cylinder**
3.3 litre	3.9 litre	5.9 litre
32-61 kWm	37-84 kWm	78-132 kWm
250-265 kg	308-350 kg	593-645 kg

With the addition of the new B3.3-G, the Cummins B Series now extends across a wide power range and application options. Particularly for site portable and rental gensets, the B3.3-G provides some 20% weight saving and a 10% cube saving compared to the B3.9-G.



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