



# Diesel Compact Single phase BG50

	Prime	Standby
Genset model	DN5-BG50P	DN5-BG50S
220-240V, 50Hz	35kVA	38kVA
	35kW	38kW
220/110V, 60Hz	42kVA	46kVA
	42kW	46kW

Ratings at 1.0 pf

**Prime:**

This rating is for the supply of continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for one hour in twelve hours.

**Standby:**

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.



Engine model	Perkins	1103A-33TG1
Number of cylinders	3 in-line	
Cubic capacity	litre (cu inch)	3.30 (201)
Aspiration	Turbocharged	
Alternator	European	



Genset photograph may include optional extras

Frequency		50Hz	60Hz
Engine speed	rpm	1,500	1,800
Fuel tank capacity	litre (USgal)	220 (58.1)	220 (58.1)
Fuel consumption at full rating:	litre /h (USgal /h)	10.7 (2.83)	12.90 (3.41)
Prime			
Standby	litre /h (USgal /h)	12 (2.17)	14.3 (3.78)
Heat rejection to exhaust system (max)	kW (BTU /min)	35 (1,992)	43 (2,447)
Heat rejection to cooling system (max)	kW (BTU /min)	30 (1,707)	34 (1,935)
Total radiated heat (max)	kW (BTU /min)	8 (455)	9 (512)
Exhaust temperature (max)	deg C (deg F)	537 (999)	551 (1,024)
Radiator cooling air flow	cu m /min (cfm)	53 (1,872)	70 (2,472)
with max restriction	mm (inch) H <sub>2</sub> O	20 (0.8)	20 (0.8)
Combustion air flow (max)	cu m /min (cfm)	3.1 (109)	3.9 (138)
Exhaust gas flow (max)	cu m /min (cfm)	7.7 (272)	9.5 (335)
with max allowable back pressure	mm (inch) H <sub>2</sub> O	1,020 (40.2)	1,530 (60.2)

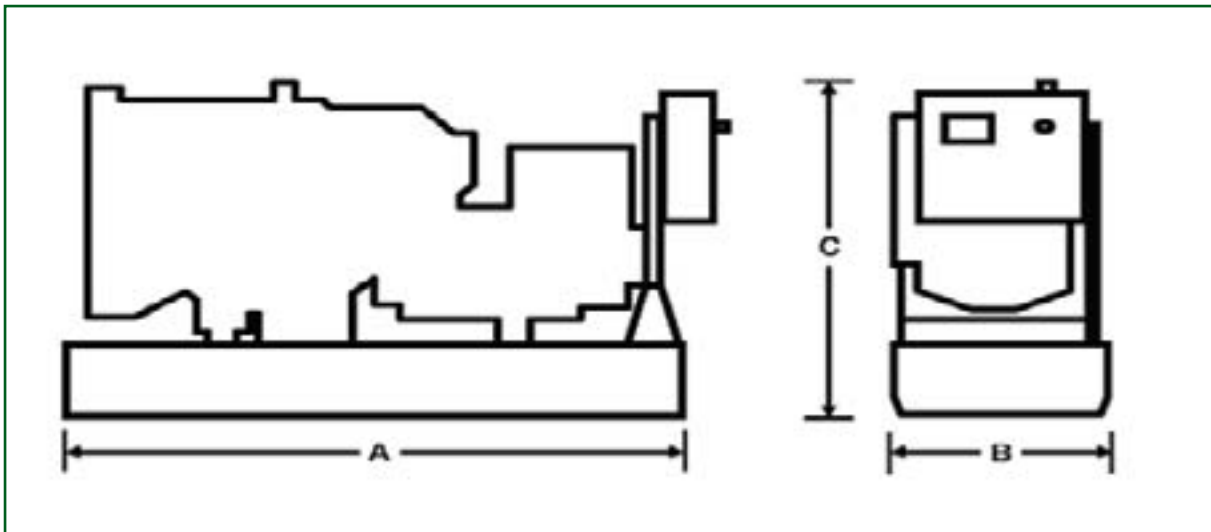
Note: Standard reference conditions: 25°C (77°F) air inlet temperature, 152.4m (500ft) above sea level, 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load for diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, class A2.



**Burtonwood**<sup>TM</sup>

Generator & Switchgear Services **Data Sheet DN5-BG50**

Dimensions:		
Length (A)	mm (inch)	2,210 (87.0)
Width (B)	mm (inch)	760 (29.9)
Height (C)	mm (inch)	1,465 (57.7)
Max longitudinal projection (D)	mm (inch)	NA
Max width projection per side (E)	mm (inch)	NA
Maximum height total (F)	mm (inch)	NA



Weights:		
Dry weight (with lube oil)	kg (lb)	941 (2,074)
Wet weight (with lube oil and coolant)	kg (lb)	962 (2,121)

Sound pressure levels:		50Hz	60Hz
		1500rpm	1800rpm
15m, 75% load	dB(A)	TBA	TBA
15m, 100% load	dB(A)	TBA	TBA
7m, 75% load	dB(A)	TBA	TBA
7m, 100% load	dB(A)	TBA	TBA
1m, 75% load	dB(A)	TBA	TBA
1m, 100% load	dB(A)	TBA	TBA

In line with our policy of continuous development, we reserve the right to change specification without notice

DN5-BG50 - DS-540-0311