



# Diesel Compact Three phase BG450

	Prime	Standby
Genset model	DN3-BG450P	DN3-BG450S
400V, 50Hz	400kVA	450kVA
	320kW	360kW
440V, 60Hz	406.2kVA	443.8kVA
	325kW	355kW

Ratings at 0.8 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	Scania	DC12-59A (spec 10-33A)
Number of cylinders	6 in-line	
Cubic capacity	litre (cu inch)	11.7 (714.0)
Aspiration	Turbocharged	
Alternator	Newage Stamford	



Genset photograph may include optional extras



Frequency		50Hz	60Hz
Engine speed	rpm	1,500	1,800
Fuel tank capacity	litre (USgal)	820 (216.6)	820 (216.6)
Fuel consumption at full rating:	litre /h (USgal /h)	82.4 (21.77)	88.7 (23.43)
Prime			
Standby	litre /h (USgal /h)	96 (25.36)	96 (25.36)
Heat rejection to exhaust system (max)	kW (BTU /min)	296 (16,847)	298 (16,961)
Heat rejection to cooling system (max)	kW (BTU /min)	229 (13,034)	230 (13,090)
Total radiated heat (max)	kW (BTU /min)	36 (2,049)	35 (1,992)
Exhaust temperature (max)	deg C (deg F)	537 (999)	489 (912)
Radiator cooling air flow	cu m /min (cfm)	540 (19,070)	933 (32,949)
with max restriction	mm (inch) H <sub>2</sub> O	20 (0.8)	20 (0.8)
Combustion air flow (max)	cu m /min (cfm)	25.4 (897)	28.8 (1,017)
Exhaust gas flow (max)	cu m /min (cfm)	70 (2,472)	75.6 (2,670)
with max allowable back pressure	mm (inch) H <sub>2</sub> O	500 (19.7)	500 (19.7)

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.



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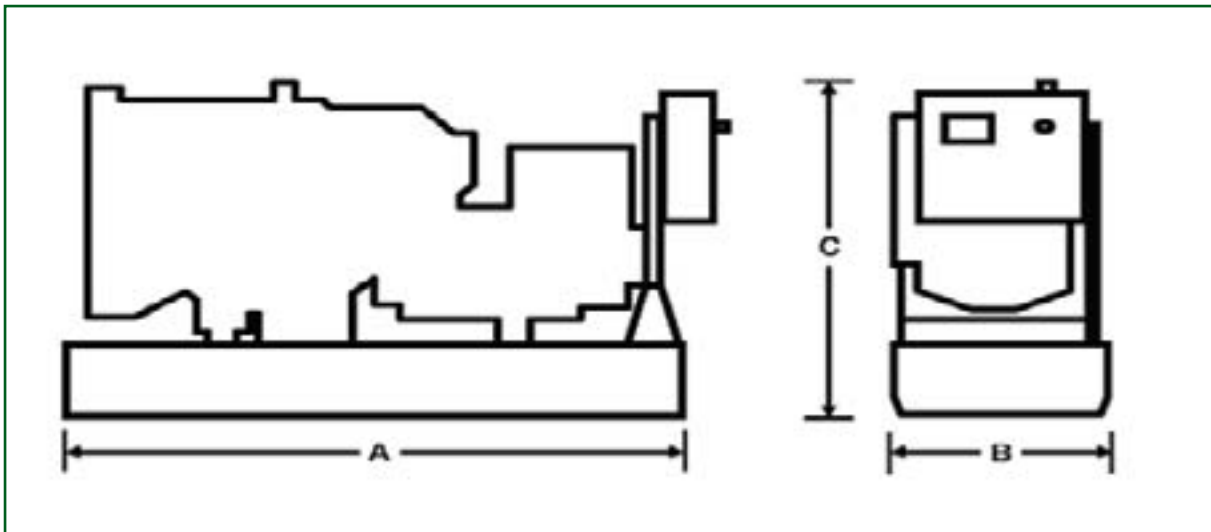
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**Data Sheet DN3-BG450**



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Dimensions:		
Length (A)	mm (inch)	3,490 (137.4)
Width (B)	mm (inch)	1,214 (47.8)
Height (C)	mm (inch)	2,025 (79.7)
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)	3,045 (6,713)
Wet weight (with lube oil and coolant)	kg (lb)	3,095 (6,823)

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

DN3-BG450 - DS-704-0311



**Burtonwood**<sup>™</sup>  
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