



# Diesel Compact Three phase BG800

	Prime	Standby
Genset model	DN3-BG800P	BG800S
380-415V	730kVA	800kVA
50Hz	584kW	640kW
480/440V	750kVA	825kVA
60Hz	600kW	660kW

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 (50Hz)	Perkins 4006-23TAG2A	
Number of cylinders	6 in line	
Cubic capacity	litre (cu inch)	22.9 (1,398)
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)	TBA (TBA)	TBA (TBA)
Fuel consumption at full rating: Prime	litre /h (USgal /h)	157 (41.48)	177 (46.76)
Standby	litre /h (USgal /h)	173 (45.71)	199 (52.58)
Heat rejection to exhaust system (max)	kW (BTU /min)	675 (38,418)	695 (39,556)
Heat rejection to cooling system (max)	kW (BTU /min)	271 (15,424)	260 (14,798)
Total radiated heat (max)	kW (BTU /min)	79 (4,496)	81 (4,610)
Exhaust temperature (max)	deg C (deg F)	430 (806)	430 (806)
Radiator cooling air flow	cu m /min (cfm)	1,200 (42,378)	1,320 (46,616)
with max restriction	mm (inch) H <sub>2</sub> O	13 (0.5)	20 (0.8)
Combustion air flow (max)	cu m /min (cfm)	71 (2,507)	73 (2,578)
Exhaust gas flow (max)	cu m /min (cfm)	180 (6,357)	190 (6,710)
with max allowable back pressure	mm (inch) H <sub>2</sub> O	610 (24)	610 (24)

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>

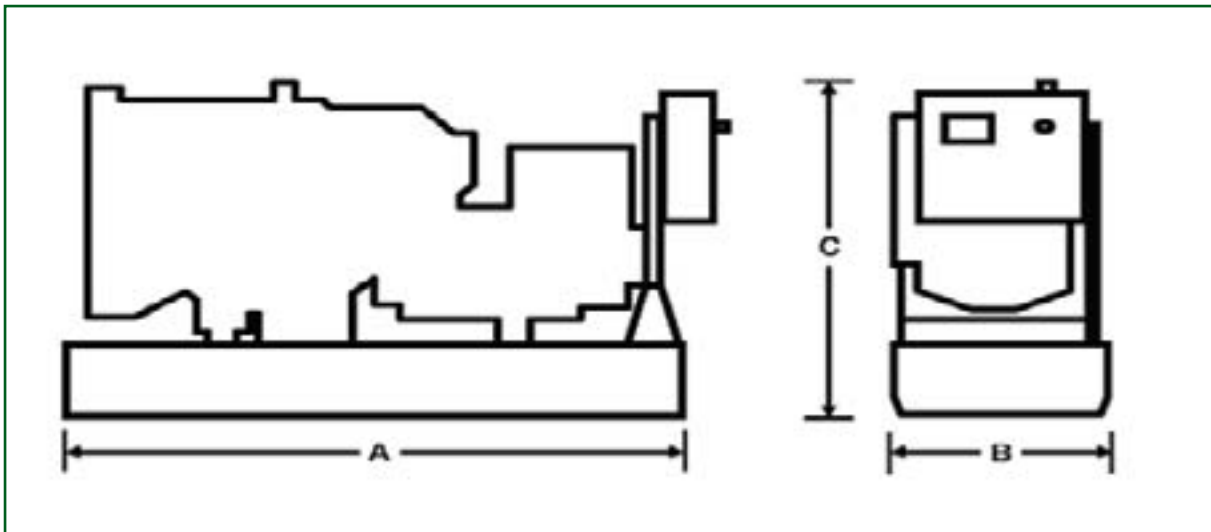
Generator & Switchgear Services

**Data Sheet DN3-BG800**



# Diesel Compact Three phase BG800

Dimensions:		
Length (A)	mm (inch)	3,952 (155.6)
Width (B)	mm (inch)	1,713 (67.4)
Height (C)	mm (inch)	2,198 (86.5)
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)	5,250 (11,574)
Wet weight (with lube oil and coolant)	kg (lb)	5,400 (11,904)

Sound pressure levels:		50Hz	60 Hz
		1,500rpm	1,800rpm
15m, 75% load	dB(A)	NA	NA
15m, 100% load	dB(A)	NA	NA
7m, 75% load	dB(A)	NA	NA
7m, 100% load	dB(A)	NA	NA
1m, 75% load	dB(A)	NA	NA
1m, 100% load	dB(A)	NA	NA

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

DN3-BG800 - DS-901-0311



**Burtonwood**<sup>TM</sup>  
Generator & Switchgear Services

Tel: +44 (0) 1744 814444  
Fax: +44 (0) 1744 814455  
Email: sales@burtonwoodgroup.com  
Web: www.burtonwoodgroup.com

Unit 2, St Michaels Road  
St Helens  
Merseyside  
WA9 4WZ