



Manufacturing
 Birch Road
 Dumbarton, G82 2RF
 Tel: 0044 (0)1389 742214
 Fax: 0044 (0)1389 742554

EQUIPMENT DATA SHEET

Diesel Generating Set
50 Hz 2100 kVA
60 Hz 2040 kW

No. **G08.0214**
 Rev. **B**
 Date **02 Nov 04**

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1	Model	Ref	NHC40/QSK60G7 (World)	
2	Part Number	Ref	602077	
3	Specification	Ref	G32.0029	
4	Installation Drawing	Ref	A05.0132	
5	Maximum Ambient	°C (°F)	45 (113)	45 (113)
6	Electrical Output	Hz	50	60
	ISO 8528-1			
	- Continuous Power (COP)	kW (kVA)	1228 (1535)	1626 (2088)
	- Prime Power (PRP)	kW (kVA)	1520 (1900)	1848 (2310)
	- Permissible average of PRP	%	70	70
	ISO3046/1			
	- Fuel Stop Power/Standby	kW (kVA)	1680 (2100)	2040 (2550)
	Single Step load application	%	70	70
7	Alternator			
	Class F Temp. Rise (105°C)			
	- Three phase	kW (kVA)	1720 (2150)	2100 (2625)
	- Single phase	kW (kVA)	1824 (2280)	2225 (2781)
	Ends Out		6	
	Make & Type		Newage Stamford HCI734J2	
	AVR		MX321	
	Regulation	%	± 0.5	
8	Circuit Breaker			
	Make & Type		ABB EMAXEV4 – A/F	
	Number of poles		4 (Dual Approved)	
	Rating	Amps	3600	
	Trip Unit Type		PR111A-LSI	
	Overload Protection Range	Amps	1440 - 3600 (Adjustable by selector)	
	Short Circuit Protection Range	Amps	5400 - 43200 (Adjustable by selector)	
9	Load Terminals			
	Type		Busbar M12	
10	Fuel Consumption			
	Standby/Fuel Stop	lit/hr(US gal/hr)	415 (109.5)	520 (137.2)
	100% Prime Power	" "	378 (99.7)	471 (124.2)
	75%	" "	288 (75.9)	360 (95.1)
	50%	" "	200 (52.9)	254 (67.1)

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11 Running Hours

100% Prime Power	Hours	9	8
75%		12	10
50%		17.5	15

12 Exhaust Emissions

Measurement Method		TA-Luft	EPA-MOH/CARB
Specific Load		100% Load ± 2%	ISO 8178D2
NOx - Oxides of Nitrogen		4000 mg/nm ³	9.20 g/kW.h
PM - Particulate Matter		130 mg/nm ³	0.54 g/kW.h
CO - Carbon Monoxide		650 mg/nm ³	11.40 g/kW.h
HC - Unburnt Hydrocarbons		-	1.30 g/kW.h

13 Exhaust Silencer

Make & Type		Silentor	
Certificate	Yes	M-8984	
Permissible back pressure	mm (ins) Hg	6.35 (0.25")	6.35 (0.25")

14 Noise

Sound Power	dBA (Lw)	100 (TBC)	
Sound Pressure at 1 metre	dBA	84 (Estimate)	88 (Estimate)
Sound Pressure at 7 metre	dBA	74 (Estimate)	78 (Estimate)

15 Engine

Make & Type		Cummins Diesel QSK60G7	
Cylinders & Form		V16 60°	
Aspiration		Turbocharged & Low Temperature Aftercooled	
Fuel Pump		Cummins HPI	
Governor Type		Electronic	
Make & Model		Cummins Dominion	
Steady State frequency	%	± 0.25	
Battery Voltage	Volts	24	

16 Overall Dimensions

- Length	Metres (feet)	12.19 (40' 0")	12.19 (40' 0")
- Width	Metres (feet)	2.44 (8' 0")	2.44 (8' 0")
- Height	Metres (feet)	2.60 (8' 6")	2.60 (8' 6")

17 Weight

- Without fuel	Kg (lbs)	29520 (65080)
- With fuel	Kg (lbs)	32710 (72113)

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18	Capacities		
	- Fuel	gross	Litres (US gall) 4125 (1089)
		usable	3780 (1000)
	- Lub oil	total	261 (69)
		pan	242 – 212 (64 – 56)
	- Coolant		
		Jacket Water (JW)	750 (66)
		Low Temp. Aftercooler (LTA)	250 (198)
19	External fuel supply		
	- maximum above base	Metres (feet)	2.40 (7' 10")
	- maximum below base	Metres (feet)	1.50 (4' 11")

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