



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

## EQUIPMENT DATA SHEET

**Diesel Generating Set**  
**50Hz                      800kVA**  
**60Hz                      800kW**

**No.                      G080275**  
**Rev.                     B**  
**Date                    01/02/2007**  
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1	Model	Ref	NHC20/QST30G2 STD & Stackable (AI)	
2	Part Number	Ref	602094, 602109 (Stackable)	
3	Specification	Ref	G32.0016	
4	Installation Drawing	Ref	A05.0001, A050210 (Stackable)	
5	Maximum Ambient	°C (°F)	50 (122)	50 (122)
6	Electrical Output	Hz	50	60
	ISO 8528-1			
	- Continuous Power (COP)	kW (kVA)	500 (625)	604 (755)
	- Prime Power (PRP)	kW (kVA)	650 (812)	755 (944)
	- Permissible average of PRP	%	70	70
	ISO3046/1			
	- Fuel Stop Power/Standby	kW (kVA)	720 (900)	835 (1044)
	Single Step load application	%	56	56
7	Alternator			
	Class F Temp. Rise (105°C)			
	- Three phase	kW (kVA)	664 (830)	770 (963)
	- Single phase	kW (kVA)	-	-
	Ends Out		6	
	Make & Type		Cummins Generator Technologies	HCI634H2
	AVR		MX321	
	Regulation	%	±0.5	
8	Circuit Breaker			
	Make & Type		Schneider NW25	
	Number of poles		4	
	Rating	Amps	2500	
	Trip Unit Type		Micrologic 5.0	
	Overload Protection Range	Amps	1000 – 2500 (adjustable by selector)	
	Short Circuit Protection Range	Amps	1000 – 25000 (adjustable by selector)	

Technical Department – Dumbarton Approved by C Mercer 05.02.07 / J A Casey 05.02.07



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9	Load Terminals			
	Type		Busbar M12	
10	Fuel Consumption			
	Standby/Fuel Stop	lit/hr(US gal/hr)	186 (49.2)	227 (60.0)
	100% Prime Power	" "	167 (44.2)	201 (53.0)
	75%	" "	128 (33.8)	150 (39.7)
	50%	" "	86 (22.7)	102 (26.9)
11	Running Hours			
	100% Prime Power	Hours	7.7	6.4
	75%	"	10.0	8.6
	50%	"	15.0	12.6
12	Exhaust Emissions			
	Measurement Method		TA-Luft	EPA-MOH/CARB
	Specific Load		100% prime ± 2%	ISO8178D2
	NOx – Oxides of Nitrogen		4000mg/nm <sup>3</sup>	9.20g/kW.h
	PM - Particulate Matter		130mg/hm <sup>3</sup>	0.54g/kW.h
	CO - Carbon Monoxide		650mg/hm <sup>3</sup>	11.40g/kW.h
	HC - Unburnt Hydrocarbons		-	1.30g/kW.h
13	Exhaust Silencer			
	Make & Type		Universal Silencers	
	Certificate	No	M-9561	
	Permissible back pressure	mm (ins) Hg	13 (0.5")	13 (0.5")
14	Noise			
	Sound Power – EEC	dBA (Lw)	104	
	Sound Pressure at 1 metre	dBA	82	85
	Sound Pressure at 7 metre	dBA	72	76

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15	Engine			
	Make & Type		QST30G2 NR1 CPL 2968	
	Cylinders & Form		V12 50°	
	Aspiration		Turbocharged & Aftercooled	
	Fuel Pump		Bosch P7100 Direct Injection	
	Governor Type		Electronic	
	Make & Model		Cummins Dominion	
	Steady State frequency	%	±0.25	
	Battery Voltage	Volts	24	
16	Overall Dimensions			
	- Length	Metres (feet)	6.06 (20'0")	
	- Width	Metres (feet)	2.44 (8'0")	
	- Height	Metres (feet)	2.60 (8'6")	
17	Weight			
	- Without fuel	Kg (lbs)	16000 (35274)	
	- With fuel	Kg (lbs)	17216 (37954)	
18	Capacities			
	- Fuel	gross	Litres (US gall)	1431 (378.1)
		usable		1288 (340.3)
	- Lub oil	total		154 (40.7)
		pan		133-114 (35-30)
	- Coolant			383 (101.2)
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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