

		EQUIPMENT DATA SHEET		No.	G080358
		Diesel Generating Set		Rev.	C
		50 Hz	1500kVA	Date	06/03/2012
		60 Hz	1500kW	Page	1 of 3
1	Model	Ref	NHC20/QSK50G4 - T2 Regulated (C2/C3 Injectors)		
2	Part Number	Ref	602126, 602129, 602130, 602141, 602142, 602145		
3	Specification	Ref	G320016		
4	Installation Drawing	Ref	A050244		
5	Maximum Ambient	°C (°F)	45 (113)	44 (111.2)	
6	Electrical Output	Hz	50	60	
	ISO 8528-1				
	- Continuous Power (COP)	kW (kVA)	1030 (1287)	1131 (1414)	
	- Prime Power (PRP)	kW (kVA)	1120 (1400)	1300 (1625)	
	- Permissible average of PRP	%	70	70	
	ISO3046/1				
	- Fuel Stop Power/Standby	kW (kVA)	1220 (1525)	1455 (1820)	
	- Single Step load application	%	56	56	
7	Alternator				
	Class F Temp. Rise (105°C)				
	- Three phase	kW (kVA)	1156 (1525)	1380 (1725)	
	- Single phase	kW (kVA)	-	-	
	- Ends Out		6		
	- Make & Type		Cummins Generator Technologies PE 734C2		
	- 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 or Micrologic 6.0		
	- Overload Protection Range	Amps	1000 – 2500 (Adjustable by selector)		
	- Short Circuit Protection Range	Amps	1500 – 25000 (Adjustable by selector)		

9	Load Terminals				
		- Type		Busbar M12	
10	Fuel Consumption			C2 Injector / C3 Injector	C2 Injector / C3 Injector
		- Standby/Fuel Stop	lit/hr(US gal/hr)	373 (98.5) / 352 (93)	415 (109.6) / 410 (108.3)
		- 100% Prime Power	" "	338 (89.2) / 330 (87.1)	365 (96.4) / 363 (95.9)
		- 75%	" "	258 (68.1) / 254 (67.1)	291 (76.9) / 279 (73.7)
		- 50%	" "	183 (48.3) / 177 (46.8)	212 (56) / 194 (51.2)
11	Running Hours			C2 Injector / C3 Injector	C2 Injector / C3 Injector
		- 100% Prime Power	Hours	3.3 / 3.4	3.1 / 3.1
		- 75%	"	4.4 / 4.5	3.9 / 4.1
		- 50%	"	6.2 / 6.4	5.3 / 5.8
12	Exhaust Emissions				
		- Measurement Method		Cummins Exhaust Emissions Data Sheet	
		- Specific Load		100% Prime ±2% CPL	
		- NOx - Oxides of Nitrogen	g/kWh	5.762	7.772
		- PM - Particulate Matter	"	0.054	0.040
		- CO - Carbon Monoxide	"	0.724	0.643
		- HC - Unburnt Hydrocarbons	"	0.147	0.121
		- O2 – Oxygen	%	-	-
13	Exhaust Silencer				
		- Make & Type		Industrial & Marine Silencers Box Type	
		- Certificate		M-11070	
		- Permissible back pressure	mm (ins) Hg	13 (0.5)	
14	Noise				
		- Sound Power – EEC	dBA (Lw)	111	
		- Certificate		R020162	
		- Sound Pressure at 1 metre	dBA	85.8	89.7
		- Sound Pressure at 7 metre	dBA	79.2	83.3

15	Engine			
		- Make & Type		Cummins Diesel QSK50G4 CPL
		- Cylinders & Form		V16 60°
		- Aspiration		Turbocharged & Low Temperature Aftercooled
		- Fuel Pump		Cummins MCRC
		- Governor Type		Electronic
		- Make & Model		Cummins CM2150
		- 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 (net)	Kg (lbs)	19242 (42421)
		- With fuel (gross)	Kg (lbs)	20370 (44908)
18	Capacities			
		- Fuel	Gross	1290 (340.1)
			Usable	1131 (298.8)
		- Lub oil - single std sump fitted	total	182 (48)
			Pan	126-151 (32-40)
		- Lub oil - double std sump fitted	total	205 (54.2)
			Pan	149-174 (39.4-46)
		- Coolant	litres	400
19	External fuel supply			
		- maximum above base	Metres (feet)	2.40 (7'10")
		- maximum below base	Metres (feet)	1.50 (4'11")