

Generator Gas

NHC20 / QSK60 G-DRIVE GAS

Document No: G080323

Revision: L

Created By: D. McKell Approved By: C. Shrive Approval Date: 11/03/2016

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Model reference		GN1375GASCSK, GN1300GASCSK, GN1300GCWCSK				
Model size and rating			1300 kW/1375 kVA, 1300 kW, 1375 kW			
Bill of Material reference number		611018 A	611014 A, 611009 A, 611009 B, 611009 C, 611009 F, 611017 B, 611018 A, 611002 A, 611002 B, 611002 C, 611002 D, 611002 F, 611002 G			
<u>Manufacturer</u>						
Model Reference		NHC20/0	QSK60 Gas G-Drive	NHC20/0	QSK60 Gas G-Drive	
Performance Data Maximum Ambient Before Derate (JW) - Installed with 2 x Ø800mm fans and motor	°C (°F)	27.0	(80.6)	17.6	(63.68)	
W-DF160LJX-P (Plant Nos Up to XCES049)						
Maximum Ambient Before Derate (JW) - Installed with 2 x Ø900mm fans and motor W-DF160LJX-P (Plant Nos XCES050 - 078)	°C (°F)	33.0	(91.4)	0.0	(0.0)	
Maximum Ambient Before Derate (JW) - Installed with 2 x Ø900mm fans and motor W-DF160LRX-P (Plant Nos XCES079 Onwards (50Hz) and XCES112 Onwards (60Hz)	°C (°F)	33.0	(91.4)	27.6	(81.68)	
			s quoted are based on a perature engine coolant			

Electrical (ISO 8528-1) *

Continuous Power (COP)	kW (kVA)	1120.0	(1400)	1300.0	(1625)
Single Step Load Application		30%		30%	
Engine JW Cooling Configuration		50Hz		60Hz	
Electrical output to de-rate to achieve 35°C - Installed with 2 x Ø800mm fans and motor W-DF160LJX-P	kW (kVA)	923.0	(1153.75)	864.0	(1080)
Electrical output to de-rate to achieve 35°C - Installed with 2 x Ø900mm fans and motor W-DF160LRX-P	kW (kVA)	1071.0	(1338.75)	1073.0	(1341.25)
Electrical output to de-rate to achieve 35°C - Installed with 2 x Ø900mm fans and	kW (kVA)	1071.0	(1338.75)	0.0	(0.0)

outlet temperature of 90°C

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100% kW	kW (kW)	3130.0	(3130)	3959.0	(3959)
90% kW	kW (kW)	2850.0	(2850)	3602.0	(3602)
75% kW	kW (kW)	2417.0	(2417)	3064.0	(3064)
50% kW	kW (kW)	1717.0	(1717)	2164.0	(2164)

Alternator

Class F Temp Rise (105°C) Three Phase kW (kVA) 1156.0 (1445) 1352.0 (1690)

Ends Out	6	6
Make & Type	CGT PE734E / Leroy Somer LSA 50.2 VL10	CGT PE734E / Leroy Somer LSA 50.2 VL10
Regulation	±0.5	±0.5

Circuit Breaker

Make & Model		Merlin Ge	rin NW25	Merlin Ge	rin NW25
Number of Poles		4		4	
Rating	Amp (Amp)	2500.0	(2500)	2500.0	(2500)
Trip Unit Type		Micrologic	5.0	Micrologic	5.0
Overload Protection Range		1000 - 25 selector)	00 Amps (Adjustable by	1000 - 250 selector)	00 Amps (Adjustable by
Short Circuit Protection Range		1500 - 25 selector)	000 Amps (Adjustable by	1500 - 250 selector)	000 Amps (Adjustable by

Load Terminals

Type Busbar M12 Busbar M12

Engine

Make & Type	Cummins QSK60 Gas	Cummins QSK60 Gas
Cylinders & Form	V16 60 deg	V16 60 deg
Aspiration	Turbocharged & Low Temperature Aftercooled	Turbocharged & Low Temperature Aftercooled
Governor Make & Type	Cummins MCM700	Cummins MCM700
Governor Type	Electronic	Electronic





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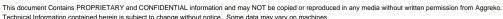
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Steady State Frequency		±1 (±0.5H	Hz) %	±1 (±0.5l	Hz) %	
Battery Voltage		24 Volts		24 Volts		
Engine Gas Supply Pressures						
Minimum Pressure @ 50 LHV (MJ/kg)		180 Mbar	-	240 Mba	r	
Maximum Pressure		500 Mbar		500 Mba	r	
Over Pressure Shutdown Threshold		482 Mbar	•	482 Mba	r	
Under Pressure Shutdown Threshold		35 Mbar		35 Mbar		
MP Gas Train Supply Pressure Range		2 - 6 Bar		2 - 6 Bar		
Minimum Methane Index		61		78		
Exhaust Emissions						
Specific Load		100% Loa	ad ± 2%	100% Lo	ad ± 2%	
CH4 - Methane		1330 mg/	nm3	1496 mg	1496 mg/nm3	
NOx - Oxides of Nitrogen		489 mg/nm3 for 1.0g/hp-hr NOx Cal		473 mg/r Cal	473 mg/nm3 for 1.0g/hp-hr NOx Cal	
CO - Carbon Monoxide		676 mg/nm3		485 mg/r	485 mg/nm3	
Exhaust Silencer Make & Type		Universal	Silencers	Universa	l Silencers	
Certificate Number		M-10408	(per Nelson Burgess)	M-10408	(per Nelson Burgess)	
Silencer Back Pressure		6.35 (0.25") mm (ins) Hg		6.35 (0.2	5") mm (ins) Hg	
loise						
Sound Power - EEC		110 dBA		110 dBA		
Sound Pressure at 1m/3ft		87 dBA		90 dBA	90 dBA	
Sound Pressure at 7m/21ft		80 dBA		84 dBA	84 dBA	
Sound Pressure at 15m/49ft		73 dBA		77 dBA		
Other Capacities and Dimensions						
Lube Oil Capacity - Total	L (US gal)	380.0	(100.32)	380.0	(100.32)	
Coolant Capacity (JW)	L (US gal)	480.0	(126.72)	480.0	(126.72)	
Coolant Capacity (LTA)	L (US gal)	200.0	(52.8)	200.0	(52.8)	
Weight (single container)	kg (lb)	20650.0	(45525.403)	20650.0	(45525.403)	
With Pre-Filled Gas Ancillary Module	kg (lb)	26840.0	(59172.001)	26840.0	(59172.001)	



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(GAM)

With Dry Gas Ancillary Module (GAM)	kg (lb)	26420.0 (58246.06)	26420.0 (58246.06)	
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Physical Characteristics

Length	6.06 m	19.88 ft
Width	2.44 m	8.01 ft
Height	2.6 m	8.53 ft
Gross Weight	20650 kg	45525.45 lbs
Net Weight	20650 kg	45525.45 lbs
Gross Fuel	0 lit	0 US gal
Net Fuel	0 lit	0 US gal