

EQUIPMENT DATA SHEET

Generator Gas NGG J420E GEN II

Model

Model reference	GG1950GASCSK, GG1875GASCSK
Model size and rating	1950 kVA, 1875 kVA
Bill of Material reference number	611033 B, 611032 B, 611034 A, 611034 C, 611034 B, 611033 A, 611032 A

Manufacturer

Model Reference	J420E605 CGT GEN II; J420E605 J420E685 CGT GEN II; J420E685 LS GEN II; J420E602 CGT GEN II; LS GEN II J420E602 LS GEN II
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Electrical Output

Electrical Output	Hz (Hz)	50.0 (50)	60.0 (60)
Voltage Capability Three Phase		380V - 440V	400V - 480V

Performance Data

Maximum Ambient Before Derate (JW)	See document E14000012 for full genset de-rate data	See document E14000013 for full genset de-rate data
Single Step Load Application	See Genset Transient Response Doc G48000122	See Genset Transient Response Doc G48000122

Electrical (ISO 8528-1) *

Continuous Power (COP)	See Engine Variant Doc G56000526	See Engine Variant Doc G56000526
Parasitic Load	47.56kW (F02000645-A)	53.58 (F02000803-A)
Allowable block loads	See Genset Transient Response Doc G48000122	See Genset Transient Response Doc G48000122

Gas Energy Input - LHV (ISO 3046-1) **

Gas Input Reference Document No	See Engine Variant Doc G56000526	See Engine Variant Doc G56000526
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Alternator

Class F Temp Rise (105°C) Three	kW (kVA)	1800.0 (2250)	2200.0 (2750)
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Phase (CGT)

Ends Out (CGT)	6	6
Make & Type (CGT)	CGT S7L1D-J4 Wdg.312	CGT S7L1D-J4 Wdg.312
AVR (CGT)	DVC550	DVC550
Regulation (CGT)	±0.25%	±0.25%
Number of Bearings (CGT)	2	2
Class F Temp Rise (105°C) Three	kW (kVA) 1600.0 (2000)	1784.0 (2230)

Phase (LS)

Ends Out (LS)	6	6
Make & Type (LS)	LEROY SOMER LSA 52.3	LEROY SOMER LSA 52.3
AVR (LS)	DVC550	DVC550
Regulation (LS)	±0.25%	±0.25%
Number of Bearings (CGT)	2	2

Circuit Breaker

Make & Model	Schnieder NW32	Schnieder NW32
Number of Poles	4	4
Rating	Amp (Amp) 3200.0 (3200)	3200.0 (3200)
Trip Unit Type	Micrologic 5.0	Micrologic 5.0
Overload Protection Range	1280 – 3200 Amps (Adjustable by selector)	1280 – 3200 Amps (Adjustable by selector)
Short Circuit Protection Range	1920 – 32000 Amps (Adjustable by selector)	1920 – 32000 Amps (Adjustable by selector)

Load Terminals

Type	Busbar M12	Busbar M12
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Engine

Make & Type	See Engine Variant Doc G56000526	See Engine Variant Doc G56000526
Cylinders & Form	V20	V20
Aspiration	Turbocharged & Low Temperature Aftercooled	Turbocharged & Low Temperature Aftercooled
Governor Make & Type	Electronic	Electronic

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Governor Type	DIA.NE XT4 (GEN II ENGINE CONTROLS)	DIA.NE XT4 (GEN II ENGINE CONTROLS)
Steady State Frequency	±0.5% (±0.25Hz)	±0.5% (±0.25Hz)
Battery Voltage	24V	24V
Engine Prime Power (100% Max Power)	See Engine Variant Doc G56000526	See Engine Variant Doc G56000526

Engine Gas Supply Pressures

Minimum Pressure @ 50 LHV (MJ/kg)	25mbar	25mbar
Maximum Pressure	66mbar	66mbar
Over Pressure Shutdown Threshold	250mbar	250mbar
Under Pressure Shutdown Threshold	13mbar	13mbar
MP Gas Train Supply Pressure Range	2 – 6 bar	2 – 6 bar
Minimum Methane Index	40	40
Minimum Pressure at Tecjet Inlet	21.7mbar	21.7mbar
Minimum Pressure at Pressure Sensor	51.8mbar	51.8mbar
Standard Gas Train Outlet Pressure Adjustment Range	60 – 100mbar (±10%)	60 – 100mbar (±10%)
Target Gas Train Outlet Pressure Setpoint	60mbar	60mbar

Exhaust Emissions

Specific Load	100% Load ±2%	100% Load ±2%
NOx – Oxides of Nitrogen (E605/E685)	500mg/m3	500mg/m3

CO - Carbon Monoxide 1000mg/m3 1000mg/m3

Exhaust Silencer

Make & Type	DURR Universal Silencers	DURR Universal Silencers
Current Back Pressure (Gen Set Only)	6.35mm (0.25in) Hg	6.35mm (0.25in) Hg
Maximum Allowable Back Pressure	30mbar - target / 60mbar – max allowed (based on Jenbacher IQA). Above 30mbar Jenbacher cannot	30mbar - target / 60mbar – max allowed (based on Jenbacher IQA). Above 30mbar Jenbacher cannot

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Noise

Sound Power - EEC	106dBA	
Sound Pressure at 1m/3ft	85dBA	90dBA
Sound Pressure at 7m/21ft	76.5dBA	81dBA
Noise Test Reference Document No	F03000343-A	

Catalyst

Make & Type	Johnson Matthey GMBH 3 way catalyst (EPA only)
Part Number	03-0033259 (Part of Engineered kit)
Back Pressure	40mbar (1.18inHg) additional backpressure @100% C.O.P.

Other Capacities and Dimensions

Lube Oil Capacity - Total	L (US gal)	875.0	(231)	875.0	(231)
Lube Oil Capacity - Sump and Additional Oil Top Up	L (US gal)	745.0	(196.68)	745.0	(196.68)
Coolant Capacity (JW)	L (US gal)	635.0	(167.64)	635.0	(167.64)
Coolant Capacity (LTA)	L (US gal)	166.0	(43.824)	166.0	(43.824)
GCM Weight	kg (lb)	7980.0	(17592.868)	7980.0	(17592.868)

Physical Characteristics