

Generator

100kVA Stg V Bruno Canopy - FQ110K

Document No: G08001008
Revision: E
Created By: B. Whitehorn
Approved By: J. Darroch
Approval Date: 09/09/2024
Page: 1 of 6

Model

Model reference GN0100STVCAN

Model size and rating 100 kVA

Bill of Material reference number 601376 A

Manufacturer

Model Reference FQ110K-V

Electrical Output

Electrical Output Hz (Hz) 50.0 (50)

Voltage Capability Three Ph 415V

Voltage Capability Single Ph 230V

Performance Data

Design Rating (Continuous) kVA (kW) 100.0 (80)

Maximum Ambient °C (°F) 50.0 (122)

Electrical (ISO 8528-1) *

Continuous Power (COP) kW (kVA) 72.0 (90)

Prime Power (PRP) kW (kVA) 80.0 (100)

Electrical (ISO 3046-1) **

Single Step Load Application 53.3 kW / 66.6 kVA

Fuel Stop Power/Standby kW (kVA) 88.0 (110)

Fuel Stop Power/Standby 220 1ph kW (kVA) 26.7 (33.375)

Fuel Stop Power/Standby 220 3ph kW (kVA) 66.7 (83.375)

Fuel Stop Power/Standby 220/400 3 ph kW (kVA) 66.7 (83.375)

Electrical (Single Phase)

Continuous Power (COP) Single Ph kW (kVA) 24.0 (30)

Prime Power (PRP) Single Ph kW (kVA) 26.6 (33.25)

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ISO references apply to Aggreko Manufacturing built equipment only

* ISO 8528-1 Reciprocating Internal Combustion Engine Driven Alternating Current Generating Sets:

Part 1 - Application, Ratings and Performance

** ISO 3046-1 Reciprocating Internal Combustion Engines: Performance:

Generator

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Page: 2 of 6

Power/Standby Single Ph	kW (kVA)	29.3	(36.625)
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Alternator

Class F Temp Rise (105°C) Three Phase	kW (kVA)	80.0	(100)
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Class H Temp Rise (125°C) Three Phase	kW (kVA)	88.0	(110)
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Ends Out	12
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Make & Type	LEROY SOMER LSA44.3S5
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AVR	AREP - D350
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Regulation	± 0.25%
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Speed	1500rpm
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Circuit Breaker

Make & Type	Schneider Electrics NSX250
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Number of Poles	4
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Rating	Amp (Amp)	250.0	(250)
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Trip Unit Type	Micrologic 2.2
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Load Terminals

Type	BUSBAR M12
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Engine

Make & Type	KOHLER type KDI3404TCR-SCR
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Cylinders & Form	4 In Line
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Aspiration	Turbocharged
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Fuel Pump	Kohler Fuel pump
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Governor Make & Type	Kohler
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Battery Voltage	Volts (Volts)	12.0	(12)
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Fuel Type	DIESEL
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ISO8528-1 Reciprocating Internal Combustion Engine

Application	Compliant
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Page: 3 of 6

Ratings	Compliant
Performance	Compliant

ISO3046-1 Reciprocating Internal Combustion Engine

Declarations of Power	Kohler datasheet
Lubricating Oil Consumptions	< 0,1 % fuel

Diesel Fuel Consumption

Standby/Fuel Stop	L/hr (US gal/hr)	22.95	(6.059)
Continuous Power (COP)	L/hr (US gal/hr)	18.82	(4.968)
100% Prime Power	L/hr (US gal/hr)	20.89	(5.515)
75% Prime Power	L/hr (US gal/hr)	15.72	(4.15)
50% Prime Power	L/hr (US gal/hr)	10.62	(2.804)

Diesel Exhaust Fluid Consumption (As a percentage of Fuel Consumption)

Standby/Fuel Stop	% (%)	5.7	(5.7)
Continuous Power (COP)	% (%)	4.4	(4.4)
100% Prime Power	% (%)	5.0	(5)
75% Prime Power	% (%)	4.3	(4.3)
50% Prime Power	% (%)	5.6	(5.6)

Diesel Exhaust Fluid Consumption

Standby/Fuel Stop	L/hr (US gal/hr)	1.3	(0.343)
Continuous Power (COP)	L/hr (US gal/hr)	0.8	(0.211)
100% Prime Power	L/hr (US gal/hr)	1.0	(0.264)
75% Prime Power	L/hr (US gal/hr)	0.7	(0.185)

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Page: 4 of 6

50% Prime Power	L/hr (US gal/hr)	0.6	(0.158)
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HVO Fuel Consumption

Standby	L/hr (US gal/hr)	24.15	(6.376)
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Continuous Power (COP)	L/hr (US gal/hr)	19.80	(5.228)
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100% Prime Power	L/hr (US gal/hr)	21.98	(5.803)
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75% Prime Power	L/hr (US gal/hr)	16.54	(4.367)
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50% Prime Power	L/hr (US gal/hr)	11.18	(2.951)
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Diesel Run Hours

Continuous Power (COP)	Hours (Hours)	24.0	(24)
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100% Prime Power	Hours (Hours)	12.5	(12.5)
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75% Prime Power	Hours (Hours)	17.0	(17)
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50% Prime Power	Hours (Hours)	25.5	(25.5)
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HVO Run Hours

Continuous Power (COP)	Hours (Hours)	22.7	(22.7)	0.0	(0)
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100% Prime Power	Hours (Hours)	11.8	(11.8)
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75% Prime Power	Hours (Hours)	16.1	(16.1)
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50% Prime Power	Hours (Hours)	24.2	(24.2)
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Exhaust Emissions

Measurement Method	e9*2016/1628*2020/1040EV5/D*30 23*00
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NOx - Oxides of Nitrogen	0.145 g/kWm-h
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PM - Particulate Matter	0.0002 g/kWm-h
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CO - Carbon Monoxide	0.038 g/kWm-h
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HC - Unburnt Hydrocarbons	0.005 g/kWm-h
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Page: 5 of 6

Exhaust Silencer

Make & Type	BRUNO SRL type SP40SIL00345		
Permissible Back Pressure	Back pressure allowance of 0,84 kPa on exhaust to accommodate field fit options required (as Aggreko specification)		
Silencer Inlet Diameter	mm (ins)	70.0	(2.756)
Silencer Outlet Diameter	mm (ins)	98.0	(3.858)

Noise Data

Sound Power - EEC	85 LwA Measured Value – 86 LwA Maximum Guaranteed		
Sound Pressure at 1m/3ft	72 dBA at 75% load		
Sound Pressure at 7m/21ft	55 dBA at 75% load		

Other Capacities and Dimensions

Lube Oil Capacity - Total	L (US gal)	15.6	(4.118)
Lube Oil Capacity - Pan	L (US gal)	9.2	(2.429)
Coolant Capacity - Gross	L (US gal)	24.3	(6.415)
Original ADBLUE Tank Capacity	L (US gal)	24.0	(6.336)
Total ADBLUE Tank capacity (including extender tank)	L (US gal)	24.0	(6.336)
Consumption ADBLUE/Fuel, Percentage of the litres (worst case)	% (%)	5.7	(5.7)

Lifting

Overhead	Certification for lifting hook provided
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Additional Information

Exhaust gas temperature	455°C. (as engine datasheet)
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Physical Characteristics

Length	3.04 m	9.99 ft
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Page: 6 of 6

Width	1.17 m	3.84 ft
Height	2 m	6.56 ft
Gross Weight	2800 kg	6172.94 lbs
Net Weight	2270 kg	5004.49 lbs
Gross Fuel	450 lit	118.88 US gal
Net Fuel	0 lit	0 US gal