

Generator

600 T4F/Stage V Dual Certified Canopy

Document No: G08000784
Revision: H
Created By: J. Lastauskiene
Approved By: J. Darroch
Approval Date: 13/09/2024
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Model

Model reference	GN06004F5CAN
Model size and rating	600 kVA
Bill of Material reference number	601353 E, 601353 C, 601353 A, 601353 B, 601353 D

Electrical Output

Electrical Output	Hz (Hz)	50.0	(50)	60.0	(60.0)
Voltage Capability Three Ph		415V		480V	
Voltage Capability Single Ph		230V		277V	

Performance Data

Maximum Ambient	°C (°F)	45.0	(113)	45.0	(113)
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Electrical (ISO 8528-1) * at 0.8PF

Continuous Power (COP)	kW (kVA)	409.1	(511.375)	427.0	(533.75)
(Restricted) Prime Power (PRP)	kW (kVA)	456.0	(570)	552.0	(690)

Electrical (ISO 8528-1) * at 1.0PF

Continuous Power (COP)	kW (kVA)	412.5	(412.5)	431.3	(431.3)
(Restricted) Prime Power (PRP)	kW (kVA)	532.0	(532.0)	573.0	(573.0)

Electrical (ISO 3046-1) * at 0.8PF

Fuel Stop Power/Standby	kW (kVA)	500.0	(625)	606.2	(757.75)
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Electrical (ISO 3046-1) * at 1.0PF

Fuel Stop Power/Standby	kW (kVA)	587.2	(587.2)	633.2	(633.2)
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Alternator

Class F Temp Rise (105°C) Three Phase	kW (kVA)	496.0	(620)	550.0	(687.5)
Class F Temp Rise (105°C) Single Phase	kW (kVA)	198.4	(248)	220.0	(275)

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* 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:

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Ends Out	12	12
Make & Type	CGT S5L1D-F4 Aggreko Special	
AVR	DSEA109	
Regulation	±0.5%	

Circuit Breaker

Make & Type	Schneider/Merlin Gerin Powerpact P-Frame 1200A MCCB		Schneider/Merlin Gerin Powerpact P-Frame 1200A MCCB	
Rating	Amp (Amp)	1200.0 (1200)	1200.0 (1200.0)	
Trip Unit Type	Micrologic 6.0H		Micrologic 6.0H	
Overload Protection Range	500-1200		500-1200	
Short Circuit Protection Range	1875-12500		1875-12500	

Load Terminals

Type	Busbar M12	Busbar M12
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Engine

Make & Type	Volvo TWD1683GE		Volvo TWD1683GE	
Cylinders & Form	6 Cylinders In Line		6 Cylinders In Line	
Aspiration	Turbo Charged		Turbo Charged	
Fuel Pump	Volvo		Volvo	
Governor Make & Type	Volvo EMS 2.3		Volvo EMS 2.3	
Steady State Frequency	±0.5		±0.5	
Battery Voltage	Volts (Volts)	24.0 (24)	24.0 (24)	

Fuel Type

Diesel (EU)	EN590:2022	EN590:2022
Diesel (NAM)	ASTM D975 (1D and 2D)	ASTM D975 (1D and 2D)
GTL / HVO	EN15940:2016*	EN15940:2016*
FAME / RME / SME / PME	EN14214:2012+A2:2019	EN14214:2012+A2:2019
MK 1	SS-155435:201	SS-155435:201

Fuel Consumption (Based on Power Factor 1.0 and based on EN590 Diesel)

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Standby/Fuel Stop	L/hr (US gal/hr)	125.8	(33.211)	156.2	(41.237)
Continuous Power (COP)	L/hr (US gal/hr)	100.7	(26.585)	109.7	(28.961)
100% Prime Power	L/hr (US gal/hr)	113.1	(29.858)	141.2	(37.277)
75% Prime Power	L/hr (US gal/hr)	84.9	(22.414)	106.5	(28.116)
50% Prime Power	L/hr (US gal/hr)	57.8	(15.259)	73.5	(19.404)

HVO Fluid Consumption

Standby/Fuel Stop	L/hr (US gal/hr)	132.38	(34.948)	164.37	(43.394)
Continuous Power (COP)	L/hr (US gal/hr)	105.97	(27.976)	115.44	(30.476)
100% Prime Power	L/hr (US gal/hr)	119.02	(31.421)	148.58	(39.225)
75% Prime Power	L/hr (US gal/hr)	89.34	(23.586)	112.07	(29.586)
50% Prime Power	L/hr (US gal/hr)	60.82	(16.056)	77.34	(20.418)

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

Standby/Fuel Stop	% (%)	6.4	(6.4)	5.9	(5.9)
Continuous Power (COP)	% (%)	7.0	(7)	6.8	(6.8)
100% Prime Power	% (%)	6.6	(6.6)	6.2	(6.2)
75% Prime Power	% (%)	7.0	(7)	6.8	(6.8)
50% Prime Power	% (%)	7.2	(7.2)	6.3	(6.3)

Diesel Emission Fluid Consumption

Standby/Fuel Stop	L/hr (US gal/hr)	8.0	(2.112)	9.2	(2.429)
Continuous Power (COP)	L/hr (US gal/hr)	7.1	(1.874)	7.5	(1.98)
100% Prime Power	L/hr (US gal/hr)	7.5	(1.98)	8.8	(2.323)

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	gal/hr)				
75% Prime Power	L/hr (US gal/hr)	5.9	(1.558)	7.2	(1.901)
50% Prime Power	L/hr (US gal/hr)	4.2	(1.109)	4.6	(1.214)

Diesel Running Hours (Based on Active Fuel Capacity of 1585L/418.7 US gal)

Continuous Power (COP)	Hours (Hours)	15.5	(15.5)	14.5	(14.5)
100% Prime Power	Hours (Hours)	14.0	(14)	11.2	(11.2)
75% Prime Power	Hours (Hours)	18.4	(18.4)	14.9	(14.9)
50% Prime Power	Hours (Hours)	27.1	(27.1)	21.6	(21.6)

HVO Running Hours

Continuous Power (COP)	Hours (Hours)	14.7	(14.7)	13.7	(13.7)
100% Prime Power	Hours (Hours)	13.3	(13.3)	10.6	(10.6)
75% Prime Power	Hours (Hours)	17.4	(17.4)	14.1	(14.1)
50% Prime Power	Hours (Hours)	25.7	(25.7)	20.5	(20.5)

Exhaust Emissions

OEM Emissions Declaration	G08000911	G08000912
Measurement Method	e5*2016/1628*2016/1628GC1/D*0 080*00	e5*2016/1628*2016/1628GC1/D*0 080*00
Specific Load	647kW	685kW
NOx - Oxides of Nitrogen	0.17g/kWh	0.4g/kWh
PM - Particulate Matter	0.012g/kWh	0.0137g/kWh
CO - Carbon Monoxide	0.043g/kWh	0.066g/kWh
HC - Unburnt Hydrocarbons	0.007g/kWh	0.013g/kWh

Exhaust Silencer

Make & Type	Volvo SCR Muffler	Volvo SCR Muffler
Certificate Number	R03001771-1	R03001771-1
Permissible Back Pressure	2.9psi	2.9psi
Silencer Inlet Diameter	mm (ins) 219.0 (8.622)	219.0 (8.622)

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Silencer Outlet Diameter	mm (ins)	219.0	(8.622)	219.0	(8.622)
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Certification

Emissions Certificate EU Stage V	R03001771-1	R03001771-1
Emissions Certificate US EPA	R03001772-1	R03001772-1
Emissions Certificate US CARB	R03001773-1	R03001773-1

Noise Data

Sound Power - EEC	100	
Sound Pressure at 1m/3ft (Ref F03000283)	81.5	81.6
Sound Pressure at 7m/21ft (Ref F03000283)	73.1	72.4

Other Capacities and Dimensions

Lube Oil Capacity - Total	L (US gal)	90.0	(23.76)	90.0	(23.76)
Lube Oil Capacity - Pan	L (US gal)	42.0	(11.088)	42.0	(11.088)
Coolant Capacity - Gross	L (US gal)	166.0	(43.824)	166.0	(43.824)
Coolant Capacity (JW)	L (US gal)	48.0	(12.672)	48.0	(12.672)
Coolant Capacity (LTA)	L (US gal)	48.0	(12.672)	48.0	(12.672)
External Fuel Supply - Max Above Base	m (ft)	3.5	(11.484)	3.5	(11.484)
External Fuel Supply - Max Below Base	m (ft)	2.0	(6.562)	2.0	(6.562)
Diesel Emission Fluid Capacity	L (US gal)	165.0	(43.56)	165.0	(43.56)

Additional Information

*See Volvo Penta Operators Manual

*See Volvo Penta Operators Manual

*Open Container for Transportation *Open Container for Transportation

Volvo Penta approves usage of neat HVO and GTL that complies with EN 15940, as well as HVO and GTL blends into diesel fuels complying with the quality requirements above. Approved Biofuels Diesel fuel for Volvo engines must meet the EN590,

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ASTM D 975 1-D and 2-D, or JIS K 2204 standards. Volvo Penta TWD1683 GE Stage V/Tier 4 Final Engine Biodiesel FAME ("biodiesel") is blended into diesel fuel, but excessive FAME content will damage the catalytic system. Requirement: The max allowed FAME content is the same as in fuel EN590 (7% FAME that complies with EN 14214) and the ASTM D975 (5% FAME that complies with ASTM D6751).

Physical Characteristics

Length	5.16 m	16.93 ft
Width	1.9 m	6.23 ft
Height	2.92 m	9.58 ft
Gross Weight	10676 kg	23536.55 lbs
Net Weight	8808 kg	19418.31 lbs
Gross Fuel	1771 lit	467.85 US gal
Net Fuel	1753 lit	463.09 US gal