

**Model: C1200 N5C**  
**Frequency: 50 Hz**  
**Fuel Type: Low BTU (12.7:1)**  
**Emissions Performance NOx: 500 mg/Nm<sup>3</sup>**  
**LT Water Inlet Temperature: 50°C (122°F)**  
**HT Water Outlet Temp: 90°C (194°F)**

**Generator set data sheet**  
**1200kW continuous**

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<b>Measured Sound Performance Data Sheet:</b>	N/A
<b>Prototype Test Summary Data:</b>	N/A
<b>Generator Set Outline Drawing:</b>	A029U550 Normal Duty Air Filtration A029E093 Heavy Duty Air Filtration

<b>Fuel Consumption (ISO3046/1)</b>	<b>See Note</b>	<b>100% of Rated Load</b>	<b>90% of Rated Load</b>	<b>75% of Rated Load</b>	<b>50% of Rated Load</b>
Fuel Consumption (LHV) ISO3046/1, kW (MMBTU/hr)	2,3,6,9	2963 (10.12)	2711 (9.26)	2338 (7.98)	-
Mechanical Efficiency ISO3046/1, percent	2,9,6	41.7%	41.0%	39.7%	-
Electrical Efficiency ISO3046/1, percent	2,9,11	40.5%	39.8%	38.5%	-

<b>Engine</b>	
Engine Manufacturer	Cummins
Engine Model	QSK60G
Configuration	V16
Displacement, L (cu.in)	60 (3671)
Aspiration	Turbocharged
Gross Engine Power Output, kWm (hp)	1236 (1657)
BMEP, bar (psi)	19.4 (281.3)
Bore, mm (in)	159 (6.26)
Stroke, mm (in)	190 (7.48)
Rated Speed, rpm	1500
Piston Speed, m/s (ft/min)	9.5 (1870)
Compression Ratio	12.7:1
Lube Oil Capacity, L (qt)	380 (400)
Overspeed Limit, rpm	1875
Full Load Lubricating oil consumption, g/kWe-hr (g/hp-hr)	0.15 (0.11)

<b>Fuel</b>	
Gas supply pressure to engine inlet, bar (psi) <sup>6</sup>	0.20 (2.9)
Minimum Methane Index	64

<b>Starting System(s)</b>	
Electric starter voltage, volts	24
Minimum battery capacity @ 40 deg.C (104 deg.F), AH	720
Air Starter Pressure, barg (psig)	NA
Air Starter Flow Nm <sup>3</sup> /s (scfm)	NA

<b>Genset Dimensions (see note 1)</b>	
Genset Length, m (ft)	5.12 (16.8)
Genset Width, m (ft)	2.23 (7.30)
Genset Height, m (ft)	2.77 (9.08)
Genset Weight (wet), kg (lbs)	15450 (33,990)

	See Notes	100% of Rated Load	90% of Rated Load	75% of Rated Load	50% of Rated Load
<b>Energy Data</b>					
Continuous Generator Electrical Output kW @ 1.0 pf	2,6,11	1200	1080	900	-
Total Heat Rejected in LT Circuit, kW (MMBTU/h)	4	82 (0.28)	76 (0.26)	65 (0.22)	-
Total Heat Rejected in HT Circuit, kW (MMBTU/h)	4	631 (2.15)	548 (1.87)	471 (1.61)	-
Unburnt, kW (MMBTU/h)	12	60 (0.20)	54 (0.18)	47 (0.16)	-
Heat Radiated to Ambient, kW (MMBTU/h)	12	190 (0.65)	173 (0.59)	151 (0.52)	-
Available Exhaust heat to 105C, kW (MMBTU/h)	4	803 (2.74)	767 (2.62)	685 (2.34)	-
<b>Intake Air Flow</b>					
Intake Air Flow Mass, kg/s (lb/hr)	3	1.80 (14260)	1.63 (12910)	1.38 (10930)	-
Intake Air Flow Volume, m <sup>3</sup> /s @ 0°C (scfm)	3	1.39 (3100)	1.26 (2810)	1.07 (2390)	-
Maximum Air Cleaner Restriction Below 35C, mmHG (in H <sub>2</sub> O)		21 (11.1)	17 (9.0)	12 (6.4)	-
Maximum Air Cleaner Restriction Above 35C, mmHG (in H <sub>2</sub> O)		14 (7.3)	11 (5.9)	8 (4.2)	-
<b>Exhaust Air Flow</b>					
Exhaust Gas Flow Mass, kg/s (lb/hr)	3	1.87 (14810)	1.69 (13380)	1.43 (11330)	-
Exhaust Gas Flow Volume, m <sup>3</sup> /s (cfm)	3	4.01 (8490)	3.72 (7880)	3.24 (6860)	-
Exhaust Temperature After Turbine, °C (°F)	5	485 (904)	504 (939)	526 (980)	-
Max Exhaust System Back Pressure, mmHG (in H <sub>2</sub> O)	13	27.8 (14.9)	22.3 (11.9)	16.1 (8.6)	-
<b>HT Cooling Circuit</b>					
HT Circuit Engine Coolant Volume, l (gal)		181 (48)	181 (48)	181 (48)	-
HT Coolant Flow @ Max Ext Restriction, m <sup>3</sup> /h (gal/min)		70 (308)	70 (308)	70 (308)	-
Maximum HT Engine Coolant Inlet Temp, °C (°F)	7	81 (178)	82 (180)	83 (182)	-
HT Coolant Outlet Temp, °C (°F)	7	90 (194)	90 (194)	90 (194)	-
Max Pressure Drop in External HT Circuit, bar (psig)		1.0 (15)	1.0 (15)	1.0 (15)	-
HT Circuit Maximum Pressure, bar (psig)		5.0 (73)	5.0 (73)	5.0 (73)	-
Minimum Static Head - Pump Inlet, bar (psig)		0.5 (7)	0.5 (7)	0.5 (7)	-
<b>LT Cooling Circuit</b>					
LT Circuit Engine Coolant Volume, l (gal)		34 (9)	34 (9)	34 (9)	-
LT Coolant Flow @ Max Ext Restriction, m <sup>3</sup> /h (gal/min)		23 (101)	23 (101)	23 (101)	-
Maximum LT Engine Coolant Inlet Temp, °C (°F)	8	50 (122)	50 (122)	50 (122)	-
Max Pressure Drop in External LT Circuit, bar (psig)		1.0 (15)	1.0 (15)	1.0 (15)	-
LT Circuit Maximum Pressure, bar (psig)		5.0 (73)	5.0 (73)	5.0 (73)	-
Minimum Static Head - Pump Inlet, bar (psig)		0.5 (7)	0.5 (7)	0.5 (7)	-
<b>Emissions</b>					
NO <sub>x</sub> Emissions, mg/Nm <sup>3</sup> @5% O <sub>2</sub> (g/hp-h)	14	500 (1.00)	500 (1.00)	500 (1.00)	-