

# Generator Set Data Sheet



**Model:** C200N6B  
**Frequency:** 60 Hz  
**Fuel type:** Natural gas  
**kW rating:** 200 Natural gas standby

**Emissions level:** EPA Emissions

<b>Fuel Consumption</b>	<b>Natural Gas Standby</b>			
	<b>kW (kVA)</b>			
Ratings	200 (250)			
Load	1/4	1/2	3/4	Full
scfh	834.1	1442.4	1961.2	2599.1
m <sup>3</sup> /hr	23.62	40.85	55.54	73.61

<b>Engine</b>	<b>Natural gas Standby Rating</b>
Engine model	QSJ8.9G-G3
Configuration	Cast Iron, In line, 6 cylinders
Aspiration	Turbocharged and aftercooled
Gross engine power output, kWm (bhp)	231 (310)
Bore, mm (in)	114.1 (4.49)
Stroke, mm (in)	144.5 (5.69)
Rated speed, rpm	1800
Compression ratio	8.5:1
Lube oil capacity, L (qt)	21 (22)

<b>Fuel Supply Pressure</b>	
Minimum operating pressure, kPa (in H <sub>2</sub> O)	1.5 (6)
Maximum operating pressure, kPa (in H <sub>2</sub> O)	3.5 (14)

<b>Air</b>	<b>Natural gas Standby Rating</b>
Combustion air, m <sup>3</sup> /min (scfm)	17 (600)
Maximum normal duty air cleaner restriction, kPa (in H <sub>2</sub> O)	3.7 (15.0)
Maximum heavy-duty air cleaner restriction, kPa (in H <sub>2</sub> O)	3.7 (15.0)

<b>Exhaust</b>	<b>Natural gas Standby Rating</b>
Exhaust flow at set rated load, m <sup>3</sup> /min (cfm)	39.6 (1399.5)
Exhaust temperature at set rated load, °C (°F)	588.9 (1092)
Maximum back pressure, kPa (inH <sub>2</sub> O)	9 (36.1)

<b>Standard set-mounted radiator cooling</b>	<b>Natural gas Standby rating</b>
Ambient design, °C (°F)	50 (122)
Fan load, kWm (HP)	10.1 (13.5)
Coolant capacity (with radiator), L (US gal)	21 (5.6)
Cooling system air flow, m <sup>3</sup> /min (scfm)	368.1 (13000)
Maximum cooling air flow static restriction, kPa (inH <sub>2</sub> O)	0.125 (0.5)

<b>Weights</b>	<b>Natural gas</b>
Unit wet weight kg (lb)	1842 (4060)

**Note:** Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Derating factors

### Natural gas

Standby	Engine power available up to 600 m (1969 ft) and ambient temperatures up to 40° C (104° F). Above these conditions, derate at 3.2% per 300 m (985 ft) and 2.5% per 5.5° C (10° F).
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## Ratings definitions

<b>Emergency Standby Power (ESP)</b>	<b>Limited-Time Running Power (LTP)</b>	<b>Prime Power (PRP)</b>	<b>Base Load (Continuous) Power (COP)</b>
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

## Alternator data

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Standard alternators	Single phase table	Three phase table				
Maximum temperature rise above 40° C ambient	120° C	120° C				
Feature code	BB90-2	B946-2	B986-2	B952-2	B943-2	BB86-2
Alternator data sheet number	ADS-213	ADS-213	ADS-212	ADS-212	ADS-212	ADS-212
Voltage ranges	120/240	120/208	120/240	347/600	277/480	127/220
Voltage feature code	R104-2	R098-2	R106-2	R114-2	R002-2	R020-2
Surge kW	205.7	211.1	213.4	214.3	213.4	211.6
Motor Starting kVA (at 90% sustained voltage) Shunt	770	770	672	770	770	770
Motor Starting kVA (at 90% sustained voltage) PMG	920	920	791	920	920	920
Full load current amps at standby rating	833	694	602	240	301	656

Optional alternators for improved starting capability	Three phase table				
Maximum temperature rise above 40° C ambient	105° C				
Feature code	BB94-2	BB95-2	BB92-2	BB85-2	BB93-2
Alternator data sheet number	ADS-212	ADS-212	ADS-212	ADS-212	ADS-213
Voltage ranges	120/240	277/480	347/600	127/220	120/208
Voltage feature code	R106-2	R002-2	R114-2	R020-2	R098-2
Surge kW	213.4	213.4	214.3	211.6	211.1
Motor Starting kVA (at 90% sustained voltage) Shunt	770	770	770	770	770
Motor Starting kVA (at 90% sustained voltage) PMG	920	920	920	920	920
Full load current amps at standby rating	602	301	240	656	694

Notes:

<sup>1</sup> Single phase power can be taken from a three phase generator set at up to 2/3 set rated 3-phase kW at 1.0 power factor

<sup>2</sup> Full single phase output up to full set rated 3-phase kW at 1.0 power factor

## Formulas for calculating full load currents:

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### Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

### Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

**Warning:** Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any buildings electrical system except through an approved device or after building main switch is open.