

Generator Set Data Sheet



**Power
Generation**

Model: C3000 D6
Frequency: 60 Hz
Fuel type: Diesel
kW rating: 2750 Data Center Continuous
Emissions level: Unregulated

Fuel consumption	kW (kVA)			
	1/4	1/2	3/4	Full
Ratings	2750 (3438)			
Ratings without fan ¹	2826 (3532)			
US gph	54	97	139	182
L/hr	204	367	526	689

¹Ratings for reference with the optional remote radiator cooling configuration. See note 1 under "Alternator data" section.

Engine

Engine model	QSK95-G2
Configuration	Cast iron, Vee, 16 cylinder
Aspiration	Turbocharged and Aftercooled
Gross engine power output, kWm (bhp)	2923 (3918)
BMEP at set rated load, kPa (psi)	2041 (296)
Bore, mm (in)	190.0 (7.48)
Stroke, mm (in)	210.1 (8.27)
Rated speed, rpm	1800
Piston speed, m/s (ft/min)	12.6 (2480)
Compression ratio	15.5:1
Lube oil capacity, L (qt)	647 (684)
Overspeed limit, rpm	2070
Regenerative power, kW	321

Fuel flow

Maximum fuel flow, L/hr (US gph)	1601.1 (423)
Maximum fuel inlet restriction with clean filter, kPa (inHg)	13.5 (4)
Maximum fuel return line restriction, kPa (inHg)	34 (10)
Maximum fuel inlet temperature, °C (°F)	71.1 (160)
Maximum fuel outlet temperature, °C (°F)	92.2 (198)

Air

Combustion air, m ³ /min (scfm)	259 (9130)
Maximum air cleaner restriction with clean filter, mmH ₂ O (inH ₂ O)	457 (18)
Alternator cooling air, m ³ /min (scfm)	255 (9005)

Exhaust

Exhaust flow at set rated load, m ³ /min (cfm)	580 (20470)
Exhaust temperature at set rated load, °C (°F)	403 (757)
Maximum back pressure, kPa (inH ₂ O)	7 (28)

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Standard set-mounted radiator cooling

Ambient design, °C (°F)	48 (118)
Fan load, kWm (HP)	78 (105)
Coolant capacity (with radiator), L (US gal)	1120 (296)
Cooling system air flow, m ³ /min (scfm)	3135 (110700)
Maximum cooling air flow static restriction, kPa (inH ₂ O)	0.12 (0.5)

Optional set-mounted radiator cooling

Ambient design, °C (°F)	50 (122)
Fan load, kWm (HP)	78 (105)
Coolant capacity (with radiator), L (US gal)	1120 (296)
Cooling system air flow, m ³ /min (scfm)	3135 (110700)
Maximum cooling air flow static restriction, kPa (inH ₂ O)	0.12 (0.5)

Optional remote radiator cooling

Engine coolant capacity, L (US gal)	379 (100)
Max flow rate at max friction head, jacket water circuit, L/min (US gal/min)	3081 (814)
Max flow rate at max friction head, aftercooler circuit, L/min (US gal/min)	651 (172)
Heat rejected, jacket water circuit, MJ/min (Btu/min)	79.80 (75680)
Heat rejected, aftercooler circuit, MJ/min (Btu/min)	19.10 (18060)
Heat rejected, fuel circuit, MJ/min (Btu/min)	0.23 (214)
Total heat radiated to room, MJ/min (Btu/min)	22.10 (20940)
Maximum friction head, jacket water circuit, kPa (psi)	83 (12)
Maximum friction head, aftercooler circuit, kPa (psi)	83 (12)
Maximum static head above engine crank centerline, jacket water circuit, m (ft)	18 (60)
Maximum static head above engine crank centerline, aftercooler circuit, m (ft)	18 (60)
Maximum jacket water outlet temp, °C (°F)	104.4 (220)
Maximum aftercooler inlet temp, °C (°F)	71.1 (160)
Maximum aftercooler inlet temp at 25 °C (77 °F) ambient, °C (°F)	46.1 (115)

Note: For non-standard remote installations contact your local Cummins Power Generation representative.

Weights

Unit dry weight kg (lb)	29500 (65092)
Unit wet weight kg (lb)	31200 (68771)

Note: Weights represent a set with standard features and alternator frame P80X. See outline drawing for weights of other configurations.

Derating factors

Full genset power available up to 2602 m (8537 ft) at ambient temperatures up to 40 °C (104 °F) and 2362 m (7749 ft) at ambient temperatures up to 50 °C (122 °F). Above these conditions, derate at 3.7% per 305 m (1000 ft) and 6% per 10 °C (18 °F).

Ratings definitions

Data Center Continuous (DCC): Applicable for supplying power continuously to a constant or varying electrical load for unlimited hours in a data center application.

Alternator data¹

Voltage	Connection	Temp rise degrees C	Duty ²	Max surge kVA ³	Winding number	Alternator data sheet	Feature code
380	Wye, 3-phase	105	DCC	N/A	13	ADS-531	BB08-2
380	Wye, 3-phase	125	DCC	N/A	13	ADS-531	BB09-2
416	Wye, 3-phase	105	DCC	15093	12	ADS-532	BB10-2
416	Wye, 3-phase	125	DCC	13283	12	ADS-531	BB11-2
440	Wye, 3-phase	105	DCC	13024	12	ADS-531	BB12-2
440	Wye, 3-phase	125	DCC	13024	12	ADS-531	BB13-2
480	Wye, 3-phase	80	DCC	14781	12	ADS-532	BB14-2
480	Wye, 3-phase	105	DCC	13024	12	ADS-531	BB15-2
600	Wye, 3-phase	80	DCC	N/A	7	ADS-532	BB17-2
600	Wye, 3-phase	105	DCC	12426	7	ADS-531	BB18-2
600	Wye, 3-phase	125	DCC	12426	7	ADS-531	BB19-2
4160	Wye, 3-phase	80	DCC	9481	51	ADS-545	BB20-2
4160	Wye, 3-phase	105	DCC	8752	51	ADS-520	BB21-2
4160	Wye, 3-phase	125	DCC	7295	51	ADS-519	BB22-2
12.47k	Wye, 3-phase	80	DCC	15883	8029	ADS-589	BB23-2
12.47k	Wye, 3-phase	105	DCC	13438	91	ADS-534	BB24-2
12.47k	Wye, 3-phase	125	DCC	13438	91	ADS-534	BB25-2
13.2k	Wye, 3-phase	80	DCC	13438	91	ADS-534	BB26-2
13.2k	Wye, 3-phase	105	DCC	11213	91	ADS-533	BB27-2
13.2k	Wye, 3-phase	125	DCC	11213	91	ADS-533	BB28-2
13.8k	Wye, 3-phase	80	DCC	13438	91	ADS-534	BB29-2
13.8k	Wye, 3-phase	105	DCC	11213	91	ADS-533	BB30-2
13.8k	Wye, 3-phase	125	DCC	11213	91	ADS-533	BB31-2

Notes:

¹Alternator data is configured for a set with ratings including engine cooling fan losses and standard features at 40 °C ambient temperature. For non-standard configurations, including remote radiator applications, check appropriate alternator data sheets or contact your local Cummins Power Generation representative.

²Standby (S), Prime (P) and Continuous ratings (C).

³Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

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

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