

Generator set data sheet

Model: C2750 D5B
Frequency: 50 Hz
Fuel type: Diesel

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	2750 (2200)				2500 (2000)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	35.37	77.32	109.47	139.09	31.2	70	100.9	128.39
L/hr	133.9	292.7	414.4	526.5	118.0	265.0	382.0	486.0

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins Inc.	
Engine model	QSK60-G22	
Configuration	Cast iron, V 16 cylinder	
Aspiration	Turbocharged and low temperature aftercooled	
Gross engine power output, kWm (bhp)	2351 (3152)	2121 (2843)
BMEP at set rated load, kPa (psi)	3130 (454)	2821 (409)
Bore, mm (in)	159 (6.25)	
Stroke, mm (in)	190 (7.48)	
Rated speed, rpm	1500	
Piston speed, m/s (ft/min)	9.5 (1869)	
Compression ratio	14.5:1	
Lube oil capacity, L (qt)	397.4 (419.9)	
Overspeed limit, rpm	1725	
Regenerative power, kW	207	

Fuel flow

Maximum fuel flow, L/hr (US gph)	996 (263)
Maximum fuel inlet restriction, clean/dirty, kPa (in Hg)	16.9 (5) / 30 (9)
Maximum fuel inlet temperature, °C (°F)	71 (160)

Air

	Standby rating	Prime rating
Combustion air, m ³ /min (scfm)	170 (6031)	154 (5447)
Maximum air cleaner restriction, clean/dirty, in H ₂ O	6.0	
Alternator cooling air, m ³ /min (cfm)	240 (8475)	

Exhaust

Exhaust flow at rated load, m ³ /min (cfm)	424.8 (15002)	393 (13824)
Exhaust temperature, °C (°F)	608 (1126)	579 (1074)
Maximum back pressure, kPa (in H ₂ O)	6.095 (24.4)	

Standard set-mounted radiator cooling

Ambient design, °C (°F)	49 (120)	
Fan load, kW _m (HP)	55 (75)	
Coolant capacity (with radiator), L (US gal)	681.4 (180)	
Cooling system air flow, m ³ /min (scfm)	2700 (95349)	
Total heat rejection, MJ/min (Btu/min)	77.9 (73825)	69.3 (65708)
Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)	

Weights¹

Unit dry weight kgs (lbs)	21106 (46531)
Unit wet weight kgs (lbs)	22070 (48656)

¹ Weights represent a set with standard features. See outline drawing for weights of other configurations.

Ratings definitions

The above ratings represent genset performance capabilities that have been obtained and corrected in accordance with ISO 8528-1. For a site or application specific rating, please contact a Cummins representative.

Emergency standby power (ESP): 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.

Prime power (PRP): 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.

Alternator data

Voltage	Connection ¹	Temp rise °C	Duty	Max surge kVA ²	Winding no.	Alternator
380-440	Star	150/40	S	1700	12	LV804
3300	Star	150/40	S	1800	51	MV804
6300-6600	Star	125/40	S	1600	61	HV804
10500-11000	Star	125/40	S	1500	83	HV804

Notes:

¹ Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the Single Phase Factor². All single phase ratings are at unity power factor.

² Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

Formulas for calculating full load currents

Three phase output

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

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.

See your distributor for more information.

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