

Generator set data sheet



Model: C2750D5BE
Frequency: 50 Hz
Fuel type: Diesel
kVA Rating: 2750 Standby
Emissions Level: EPA NSPS Stationary Emergency Tier 2

Specification Sheet:	S-6524
Exhaust emission data sheet:	EDS-3083
Exhaust emission compliance sheet:	EPA-2062
Sound performance data sheet:	MSP-4089
Cooling performance data sheet:	MCP-2136
Prototype test summary data sheet:	PTS-708
Standard Generator Set Outline:	A055Y473

Fuel consumption	Standby			
	kVA (kW)			
Ratings	2750 (2200)			
Load	1/4	1/2	3/4	Full
US gph	43.2	83.1	115.1	145.7
L/hr	163.4	314.7	435.7	551.4

Engine	
Engine manufacturer	Cummins Inc.
Engine model	QSK60-G23
Configuration	Cast iron, V16 cylinder
Aspiration	Turbocharged and low temperature after-cooled
Gross engine power output, kWm (bhp)	2370 (3177)
BMEP at set rated load, kPa (psi)	3185 (462)
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 (420)
Overspeed limit, rpm	1725
Regenerative power, kW	146
Governor type	Electronic
Starting voltage	24 Volts DC

Fuel flow

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

Air

Combustion air, m ³ /min (scfm)	163 (5783)
Maximum air cleaner restriction, clean/dirty, kPa (in H ₂ O)	1.49 / 6.22 (6.0 / 25)
Alternator cooling air, m ³ /min (cfm)	225 (7945)

Exhaust

Exhaust flow at rated load, m ³ /min (cfm)	405 (14307)
Exhaust temperature, °C (°F)	480 (896)
Maximum back pressure, kPa (in H ₂ O)	6.8 (27.3)

Standard set-mounted radiator cooling

Ambient design, °C (°F)	50 (122)
Fan load, kW _m (HP)	86 (115)
Coolant capacity (with radiator), L (US gal)	602.8 (159.2)
Cooling system air flow, m ³ /sec (scfm)	48.6 (102977)
Total head radiated to ambient, MJ/min (Btu/min)	22.6 (21355)
Total heat rejection, MJ/min (Btu/min)	101.3 (95885)
Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)

Weights²

Unit dry weight kgs (lbs)	23716 (52285)
Unit wet weight kgs (lbs)	24730 (54520)

Dimensions²

	Length	Width	Height
Standard open set dimensions mm (in)	7112 (280)	2388 (94)	3404 (134)

Notes:

² Weights and dimensions represent a set with standard features. See outline drawing for weights of other configurations.

Alternator data

Connection ¹	Temp rise °C	Duty	Alternator	Voltage
Star	80, 105, 125, 150, 163	S	LVSI804T2, W2, X2	380 – 440
Star	80, 105, 125, 150, 163	S	MVSI804T2, W2	3300
Star	80, 105, 125, 138	S	HVSI804T2, W2	6300 – 6600
Star	80, 105, 125, 138	S	HVSI804T2, W2, X2	10500 - 11000

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.

Ratings definitions¹

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
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.

Notes:

¹ Rating definitions provided for reference only.

Formulas for calculating full load currents:

Three phase output	Single phase output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$

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

For more information contact your local Cummins distributor or visit power.cummins.com

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