Generator set data sheet

Model: C2750D5BE
Frequency: 50 Hz
Fuel type: Diesel
kVA Rating: 2750 Standby / 2500 prime
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:	**A079J220**

Fuel consumption

	Standby				**Prime[1]**			
	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	43.2	83.1	115.1	145.7	39.3	75.3	106.8	131.2
L/hr	163.4	314.7	435.7	551.4	148.8	285.0	404.2	496.6

†DCC available at standby power subject to Cummins' site-specific assessment. Please contact your Cummins Distributor.

Engine

	Standby Rating	**Prime Rating[1]**
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)	2388 (3203)	2157 (2893)
BMEP at set rated load, kPa (psi)	3185 (462)	2875 (417)
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	Standby Rating	Prime Rating[1]
Combustion air, m^3/min (scfm)	164 (5787)	152 (5363)
Maximum air cleaner restriction, clean/dirty, kPa (in H_2O)	1.49 / 6.22 (6.0 / 25)	
Alternator cooling air, m^3/min (cfm)	167 (5890)	

Exhaust		
Exhaust flow at rated load, m^3/min (cfm)	405 (14307)	369 (13031)
Exhaust temperature, °C (°F)	480 (896)	462 (865)
Maximum back pressure, kPa (in H_2O)	6.8 (27.3)	

Standard set-mounted radiator cooling		
Ambient design, °C (°F)	50 (122)	
Fan load, kW_m (HP)	77 (103)	
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)	94.2 (89253)	91.1 (86380)
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)	

Weights[2]

	Set-mount radiator	Remote-cooled
Unit dry weight kgs (lbs)	22436 (49463)	18390 (40542)
Unit wet weight kgs (lbs)	23527 (51868)	19064 (42029)

Dimensions[2]	Length (A) mm (in)	Width (B) mm (in)	Height (C) mm (in)
Set - mount radiator	7215 (284)	2511 (99)	3403 (134)
Remote-cooled	5610 (221)	2083 (82)	2529 (100)

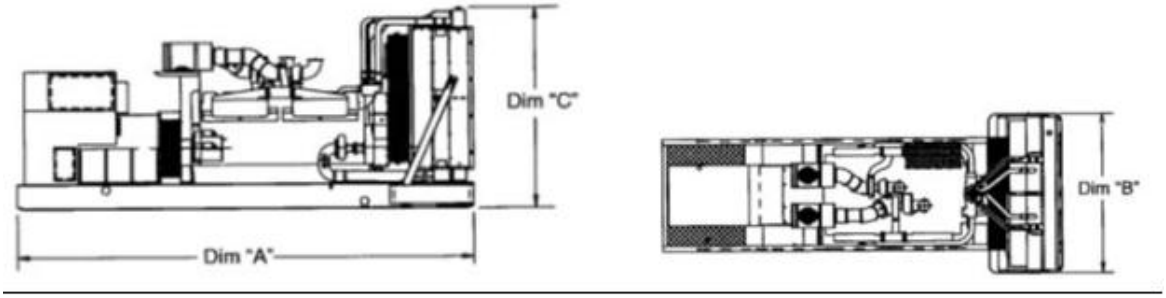
Notes:

[1] For Prime selection please reach out to AE

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

Genset outline

Open set



Do not use for installation design

This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Alternator data

Connection[1]	Temp rise ºC	Duty	Alternator	Voltage
Star	80, 105, 125, 150	ESP	S9L1D-C4, D4, E4, F4	380-440
Star	80, 105, 125	PRP	S9L1D-C4, D4, E4, F4	380-440
Star	80, 105, 125, 163	ESP	S9H1D-E4, F4, G4	6300 – 6600
Star	80, 105, 125, 163	ESP	S9H1D-E4, F4, G4	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 factor[2]. All single phase ratings are at unity power factor.

Ratings definitions[1]

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):
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 data shown above represents gross engine performance and capabilities as per ISO 3046-1, obtained and corrected in accordance with ISO 15550.	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 3046-1, obtained and corrected in accordance with ISO 15550.

Notes:

[1] Rating definitions provided for reference only.

Formulas for calculating full load currents:

Three phase output

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

Single phase output

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

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

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D-6522 PD00000592 (01/26)