

## Generator set data sheet



**Model:** C2750D5BE-PB  
**Frequency:** 50Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	EA_T_CC_36
<b>Noise data sheet</b>	MSP-4137
<b>Cooling data sheet:</b>	MCP-2194
<b>Prototype test summary data sheet</b>	PTS-722
<b>Emission Data Sheet:</b>	EDS-3089
<b>U.S.EPA Tier 2 Exhaust Emission Compliance Statement:</b>	EPA-2067

<b>Fuel consumption<sup>1</sup></b>	<b>Standby</b>				<b>Prime</b>			
	<b>kVA(kWe)</b>				<b>kVA(kWe)</b>			
<b>Ratings</b>	2750(2200)				2500(2000)			
<b>Load</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>	<b>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
<b>US gph</b>	42.9	75.5	108.6	142.1	41.3	70.2	99.5	129.1
<b>L/h</b>	162	286	411	538	156	266	377	489

<sup>1</sup> Fuel consumption exclude accessory Genset.

<b>Engine</b>	<b>Standby</b>	<b>Prime</b>
Engine manufacturer	Cummins	
Engine model	QSK60-G23	
Configuration	4-Cycle; 60° Vee; 16-Cylinder	
Aspiration	Turbocharged and Low Temperature Aftercooled	
Fuel system	Cummins MCRS	
Gross engine power output, kW/m (bhp)	2388(3202)	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)	
Displacement, litre (in <sup>3</sup> )	60.2(3672)	
Rated speed, rpm	1500	
Piston speed, m/s (ft/min)	9.49(1869)	
Compression ratio	14.5:1	
Lube oil capacity, L (US gal)	280(74)	
Overspeed limit, rpm	1725	
Regenerative power, kW/m(HP)	146(196)	
Governor type	Electronic	
Starting voltage	24 Volts DC	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr (US gph)	996(263)
Maximum fuel inlet restriction, mmHg (in Hg)	127(5)
Maximum fuel inlet temperature, °C (°F)	71(160)
Maximum Allowable Head on Injector Return Line, kPa (in Hg)	33.9(10)

Air	Standby	Prime
Combustion air, CFM (m <sup>3</sup> /min)	5783(164)	5363(151.86)
Maximum air cleaner restriction, kPa (in H <sub>2</sub> O)	3.7-6.2(15-25)	

### Exhaust system

Exhaust flow at set rated load, CFM (m <sup>3</sup> /min)	14307(405.18)	13053(369.66)
Exhaust temperature, °C (°F)	480(896)	462.78(865)
Heat to Exhaust, Btu/min (kWm)	97939 (1723)	86941 (1529)
Maximum back pressure, kPa (in H <sub>2</sub> O)	6.8(27.31)	

### Cooling system

	Standard	Option
Ambient design, °C ( °F)	45(113)	50(122)
Fan load <sup>2</sup> , kW (HP)	18(24)	24(32)
Coolant capacity (with radiator), L (US gal)	615(162)	
Cooling system air flow, m <sup>3</sup> /s (scfm)	38(79449)	41(86441)
Cooling System heat rejection <sup>3</sup> , MJ/min (Btu/min)	78.24(74157)	

<sup>2</sup>The max electrical power consumed by the fan

<sup>3</sup>Cooling system heat rejection includes jacket water circuit, aftercooler circuit and fule circuit

### Ventilation system

Fan load <sup>4</sup> , kW (HP)	8(11)
Total heat radiated <sup>5</sup> , MJ/min (Btu/min)	20.48(19415)
Ventilation Air Flow, m <sup>3</sup> /s	12.4

<sup>4</sup>The electrical power consumed by the fan

<sup>5</sup>Total heat radiated includes engine radiated heat to ambient and alternator radiated heat to ambient,exclude exhaust radiated heat to ambient

### Weights<sup>6</sup>

Unit dry weight, kgs	32426
Unit wet weight, kgs	33385

<sup>6</sup>Weights represent a set with high voltage standard features . See outline drawing for weights of other configurations.

### Dimensions

	Length(A)	Width(B)	Height(C)
Standard Containerized set dimensions, mm	12192	2438	2896

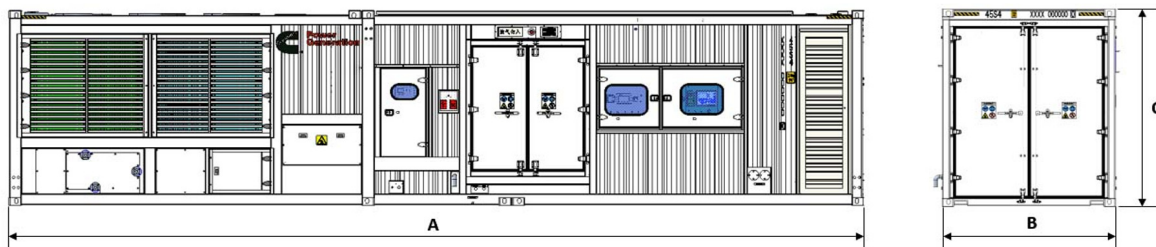
### Noise data<sup>7</sup>

Containerized set sound power level , dB(A) @ 100% Standby	107.4
Containerized set sound pressure level , dB(A) @ 100% Standby, 1m	84.2

<sup>7</sup>With VFD fan 40Hz.

## Genset outline

### Containerized Genset



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

## Alternator data

Connection	Temp rise °C	Duty <sup>8</sup>	Winding No.	Alternator	Voltage
Wye, 3Phase	150/125	S/P	983	S9H1D-E41	10500V, 11000V
Wye, 3Phase	150/125	S/P	83	S9H1D-D41	10500V, 11000V
Wye, 3Phase	150/125	S/P	312	S7L1D-K41	380-415V

<sup>8</sup> Standby (S), Prime (P).

## Ratings definitions

Emergency Standby Power (ESP):	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 ISO 3046-1, obtained and corrected in accordance with ISO 15550.	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 ISO8528,ISO 3046-1 and corrected in accordance with ISO15550.

## Formulas for calculating full load currents:

### Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.732 \times 0.8}$$

### Single phase output

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

**For more information contact your local Cummins distributor**

