

Generator set data sheet



Model: C3000D5
Frequency: 50Hz
Fuel type: Diesel

Spec sheet:	EA_T_CC_29_EN(04/22)
Cooling data sheet:	MCP-2149
Prototype test summary data sheet	PTS-709

Fuel consumption	Standby				Prime			
	kVA(kW)				kVA(kW)			
Ratings	3000(2400)				2750(2200)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	47.9	92.2	127.0	163.5	45.5	83.3	119.6	151.0
L/h	181	349	481	619	172	315	453	572

Engine	Standby	Prime
Engine manufacturer	Cummins	
Engine model	QSK78-G21	
Configuration	4-Cycle; Vee; 18-Cylinder	
Aspiration	Turbocharged and Low TemperatureAftercooled	
Gross engine power output, kWm (bhp)	2613(3504)	2401(3220)
BMEP at set rated load, kPa (psi)	2694(391)	2475(359)
Bore, mm (in.)	170(6.69)	
Stroke, mm (in.)	190(7.48)	
Rated speed, rpm	1500	
Compression ratio	15.5:1	
Lube oil capacity, L (US gal)	466(123)	
Overspeed limit, rpm	1725	
Regenerative power, kWm(HP)	266(357)	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr (US gph)	2233(590)
Maximum fuel inlet restriction, kPa (in Hg))	10.1(3)
Maximum fuel inlet temperature, °C (°F)	71(160)

Air	Standby	Prime
Combustion air, scfm (m ³ /min)	7090(201)	6761(191)
Maximum air cleaner restriction, kPa (in H ₂ O)	3.7-6.2(15-25)	

Exhaust

Exhaust flow at set rated load, CFM (m ³ /min)	16947(480)	16135(457)
Exhaust temperature, °C (°F)	458(856)	452(844)
Maximum back pressure, kPa (in H ₂ O)	6.8(27.3)	

Radiator cooling

Ambient design, °C (°F)	45(113)	
Fan load, kWm (HP)	85(114)	
Coolant capacity (with radiator), L (US gal)	736.4(195)	
Cooling system air flow, m ³ /min (scfm)	2652(93644)	
Total heat radiated to room, MJ/min (Btu/min)	23.2(21966)	
Total heat rejection*, MJ/min (Btu/min)	115.5(109565)	106.3(100757)
Maximum cooling air flow static restriction, in H ₂ O	0.5	

*Total heat rejection includes jacket water circuit, aftercooler circuit and radiated heat to ambient

Weights

Unit dry weight, kgs	24289
Unit wet weight, kgs	25319

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

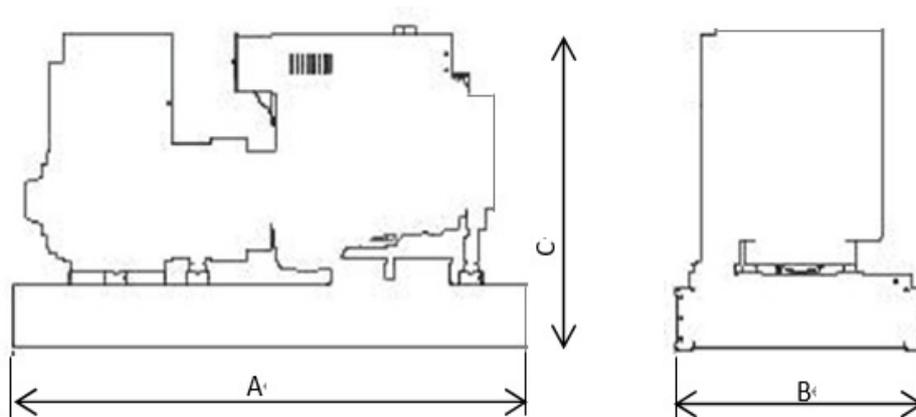
Dimensions

	Length(A)	Width(B)	Height(C)
Standard open set dimensions mm	7414	2481	3494

* Dimensions didn't including isolator. See outline drawing for detail.

Genset outline

Open Genset



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

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Alternator data

Connection	Temp rise °C	Duty*	Alternator	Voltage
Wye, 3-phase	80-163	S/P	LVSI804T2,W2,X2	380-440V
Wye, 3-phase	80-163	S/P	MVSI804T2,W2,X2	3300V
Wye, 3-phase	80-138	S/P	HVSI804T2,W2,X2	6300-6600V
Wye, 3-phase	80-138	S/P	HVSI804T2,W2,X2	10500-11000V

* Standby (S) and 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

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

Single phase output

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

For more information contact your local Cummins distributor



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