

## Generator set data sheet



**Model:** C3000 D5e  
**Frequency:** 50 Hz  
**Fuel type:** Diesel  
**Emissions level:** 2gTAL

<b>Spec sheet:</b>	<b>EMERS-5867-EN</b>
<b>Noise data sheet:</b>	<b>MSP-1188</b>
<b>Airflow data sheet:</b>	<b>AF50-HHP</b>
<b>Derate data sheet:</b>	<b>DD50-OSHHP</b>
<b>2gTAL compliance sheet:</b>	<b>EPA-1260</b>
<b>PTS sheet:</b>	<b>PTS-323</b>

<b>Fuel consumption</b>	<b>Standby</b>				<b>Prime</b>				<b>Continuous</b>			
	<b>kVA (kW)</b>				<b>kVA (kW)</b>				<b>kVA (kW)</b>			
<b>Ratings</b>	3000 (2400)				2750 (2200)				2100 (1680)			
<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>1/4</b>	<b>1/2</b>	<b>3/4</b>	<b>Full</b>
<b>US gph</b>	47.0	83.7	126.5	165.6	43.6	76.9	114.7	151.6	35.9	83.0	111.2	116.8
<b>L/hr</b>	178	317	479	627	165	291	434	574	136	314	421	442

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>	<b>Continuous rating</b>
Engine manufacturer	Cummins		
Engine model	QSK78-G16		
Configuration	Cast iron, 60 ° V18 cylinder		
Aspiration	Turbocharged and low temperature aftercooled		
Gross engine power output, kWm	2539	2304	1759
BMEP at set rated load, kPa	2613	2372	1813
Bore, mm	170		
Stroke, mm	190		
Rated speed, rpm	1500		
Piston speed, m/s	9.5		
Compression ratio	15.5:1		
Lube oil capacity, L	413		
Overspeed limit, rpm	1850 ±50		
Regenerative power, kW	189		
Governor type	Electronic		
Starting voltage	24V Volts DC		

## Fuel flow

Maximum fuel flow, L/hr	2225
Maximum fuel inlet restriction, mm Hg	127
Maximum fuel inlet temperature, °C	71

## Air

	Standby rating	Prime rating	Continuous rating
Combustion air, m <sup>3</sup> /min	222	212	187
Maximum air cleaner restriction, kPa	6.22		

## Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	542	516	406
Exhaust gas temperature, °C	481	468	453
Maximum exhaust back pressure, kPa	6.8		

## Standard set-mounted radiator cooling

Ambient design, °C	RTF		
Fan load, kW <sub>m</sub>	RTF		
Coolant capacity (with radiator), L	RTF		
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mmH <sub>2</sub> O	RTF		
Total heat rejection, Btu/min	RTF	RTF	
Maximum cooling air flow static restriction mm H <sub>2</sub> O	RTF		

## Weights\*

	Open
Unit dry weight kgs	17994
Unit wet weight kgs	18590

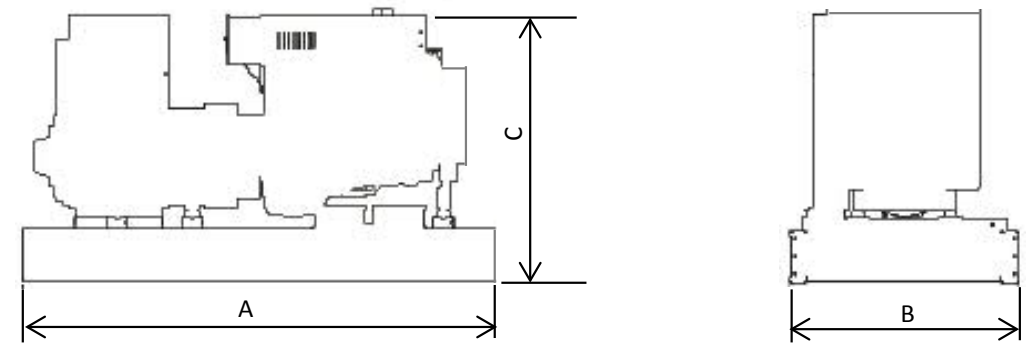
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Dimensions

	Length (A)	Width (B)	Height (C)
Standard open set dimensions	5670	2989	3197

## Genset outline

### Open set



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	Alternator	Voltage
Wye, 3-phase	80-150C	S/P/C	LVSI804S,T,W,X	380-440V
Wye, 3-phase	80-150C	S/P/C	MVSI804R,S,T,W	3300V
Wye, 3-phase	80-125C	S/P/C	HVSI804S,T,W,X	

## Ratings definitions

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.

## 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

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

### See your distributor for more information.

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