

## Generator set data sheet



**Model:** C3000 D5  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

<b>Spec sheet:</b>	SS27-CPGK
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<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>	48.0	92.2	127.0	163.5	44.3	80.2	113.8	145.5	35.4	62.9	90.4	117.2
<b>L/hr</b>	181	349	481	619	168	304	431	551	134	238	342	444

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

<b>Engine</b>	<b>Standby rating</b>	<b>Prime rating</b>	<b>Continuous Rating</b>
Engine manufacturer	Cummins		
Engine model	QSK78-G24		
Configuration	Cast iron, 60° V18 cylinder		
Aspiration	Turbocharged and low temperature after-cooled		
Gross engine power output, kWm	2614	2304	1759
BMEP at set rated load, kPa	2696	2386	1813
Bore, mm	170		
Stroke, mm	190		
Rated speed, rpm	1500		
Piston speed, m/s	11.4		
Compression ratio	15.5:1		
Lube oil capacity, L	466		
Overspeed limit, rpm	1725 ±50		
Regenerative power, kW	266		
Governor type	Electronic		
Starting voltage	24V Volts DC		

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	2233
Maximum fuel inlet restriction, mm Hg (clean filter)	127
Maximum fuel inlet temperature, °C	71

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>	<b>Continuous Rating</b>
Combustion air, m <sup>3</sup> /min	201	188	164
Maximum air cleaner restriction, kPa	6.2		

### Exhaust

Exhaust gas flow at set rated load, m <sup>3</sup> /min	480	446	385
Exhaust gas temperature, °C	458	446	429
Maximum 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
Maximum cooling air flow static restriction mm H <sub>2</sub> O	RTF

### Weights\*

	<b>Open</b>
Unit dry weight kgs	20710
Unit wet weight kgs	21300

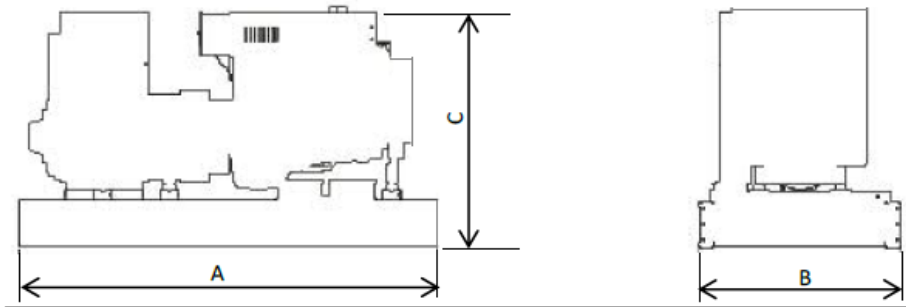
\* Weights represent a set with standard features. See outline drawing for weights of other configurations.

### Dimensions

	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions	5816	1963	2166

### 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	150/125/105	S/P/C	LVS1804T	380-440
Wye, 3-phase	80-150	S/P/C	S9M1D-D,E,F,G,H	3300
Wye, 3-phase	80-125	S/P/C	S9H1D-E,F,G,H	6300-11000

## 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 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.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550). This rating is not applicable to all generator set models.

## 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](http://power.cummins.com)

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