

Generator set data sheet



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

Spec sheet:	SS27-CPGK
--------------------	-----------

Fuel consumption	Standby				Prime				Continuous			
	kVA (kW)				kVA (kW)				kVA (kW)			
Ratings	3000 (2400) †				2750 (2200)				2100 (1680)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	48.0	92.2	127.0	163.5	44.3	80.2	113.8	145.5	35.4	62.9	90.4	117.2
L/hr	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.

Engine	Standby rating	Prime rating	Continuous Rating
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		

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

PDA056G337, E.2, Released, Product Marketing Specifications, Page 2 of 3, System: cmplm.cummins.com Downloaded: 10-08-2024 03:40UTC
 STID: UjstyThraB0AdZjIouMikDdQZYX9W1hBQwGFoIFzEiMVgHYD2ABmVA7UQsIaIKVMesXGYj6suXVrros0W6AUD9xw==

Cummins Data Classification: CUMMINS INTERNAL USE ONLY

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

Exhaust			
Exhaust gas flow at set rated load, m ³ /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 _m	RTF
Coolant capacity (with radiator), L	RTF
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	RTF
Total heat rejection, Btu/min	RTF
Maximum cooling air flow static restriction mm H ₂ O	RTF

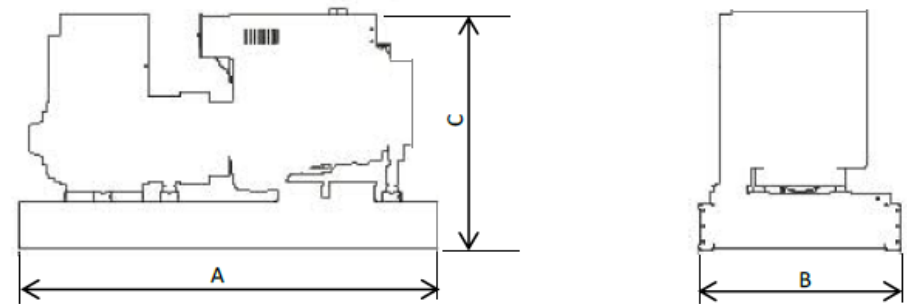
Weights*	Open
Unit dry weight kgs	20710
Unit wet weight kgs	21300

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

Dimensions	Length	Width	Height
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	80-125	S/P/C	S9H1D-E,F,G,H	6300-11000

Ratings definitions

Emergency standby power (ESP):	Limited-time running power (LTP):	Prime power (PRP):
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.

Formulas for calculating full load currents:

Three phase output	Single phase output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$

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

Our energy working for you.™

