

Model: C90 D5
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet



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Spec sheet:	DS352-CPGK
Noise data sheet (Open/enclosed):	ND50-CS550
Airflow data sheet:	AF50-550
Transient data sheet:	TD50-550

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	90 (72)				81 (65)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	1.4	2.5	3.8	5.2	1.3	2.3	3.4	4.7
L/hr	6.2	11.5	17.1	23.6	5.7	10.3	15.4	21.2

Engine		Standby rating	Prime rating
Engine manufacturer	Cummins		
Engine model	6BTA5.9 G5		
Configuration	Inline 6-Cylinder Diesel		
Aspiration	Turbocharged and After Cooled		
Gross engine power output, kWm	102	93	
BMEP at set rated load, kPa	1386	1265	
Bore, mm	102		
Stroke, mm	120		
Rated speed, rpm	1500		
Piston speed, m/s	6		
Compression ratio	17.6:1		
Lube oil capacity, L	16.4		
Overspeed limit, rpm	1800		
Regenerative power, kW	6.5		
Governor type	Electronic		
Starting voltage	12V Volts DC		

Fuel flow	
Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg	8
Maximum fuel inlet temperature (°C)	71

Air	
Combustion air, m ³ /min	131.00 120.00
Maximum air cleaner restriction, kPa	6

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	21.4	19.5
Exhaust gas temperature, °C	540	533
Maximum exhaust back pressure, kPa	10.5	

Standard set-mounted radiator cooling		
Ambient design, °C	54	
Fan load, KW _m	5.6	
Coolant capacity (with radiator), L	19.75	
Cooling system air flow, m ³ /sec @ 12.7mmH ₂ O	3.44	
Total heat rejection, BTU/min	9259	8419
Maximum cooling air flow static restriction mmH ₂ O	RTF	

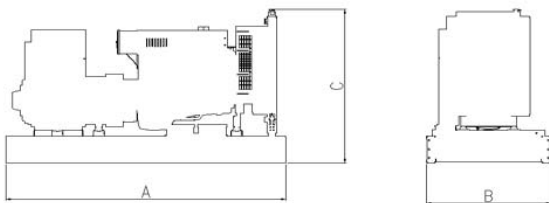
Weights*	Open	Enclosed
Unit dry weight kgs	1244	1944
Unit wet weight kgs	1555	2255

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

Dimensions	Length	Width	Height
Standard open set dimensions	2268	1094	1576
Enclosed set standard dimensions	3151	1142	1714

Genset outline

Open set



Enclosed set



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

Alternator data

Feature code	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
0	Wye -3 phase	163/125	S/P	UCI224G	380-415
	0	0	0	0	0

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
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) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents:

Three phase output

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

Single phase output

$$\frac{kW \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

Cummins Power Generation
 Manston Park, Columbus Avenue
 Manston, Ramsgate
 Kent CT12 5BF, UK
 Telephone: +44 (0) 1843 255000
 Fax: +44 (0) 1843 255902
 E-Mail: cpg.uk@cummins.com
 Web: www.cumminspower.com

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