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

	Standby	Standby			Prime	Prime		
Fuel consumption	kVA (kV	kVA (kW)			kVA (k\	kVA (kW)		
Ratings	90 (72)	90 (72)			81 (65)	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 Co	poled		
Gross engine power output, kWm	102	93		
BMEP at set rated load, kPa	1386	1265		
Bore, mm	102	•		
Stroke, mm	120	120		
Rated speed, rpm	1500	1500		
Piston speed, m/s	6	6		
Compression ratio	17.6:1	17.6:1		
Lube oil capacity, L	16.4	16.4		
Overspeed limit, rpm	1800	1800		
Regenerative power, kW	6.5	6.5		
Governor type	Electronic	Electronic		
Starting voltage	12V Volts DC	12V Volts DC		
Fuel flow				
Maximum fuel flow, L/hr	45			

8			
71	71		
131.00	120.00		
6			
	131.00 6	131.00   120.00   6	



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/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 <sub>m</sub>	5.6	
Coolant capacity (with radiator), L	19.75	
Cooling system air flow, m3/sec @ 12.7mmH2O	3.44	
Total heat rejection, BTU/min	9259	8419
Maximum cooling air flow static restriction mmH2O	RTF	

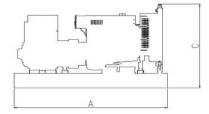
Weights*	Open	Enclosed
Unit dry weight kgs	1244	1944
Unit wet weight kgs	1555	2255

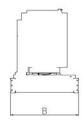
<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations

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 <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	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	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 Single phase output

kWx1000 kWxSingleP haseFactor x1000

Voltagex1. 73x0.8 Voltage

#### See your distributor for more information.

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