

### » Generator set data sheet

Model: C700 D5 Frequency: 50 Fuel Type: Diesel

Maximum fuel inlet temperature (°C)

Spec sheet:			SS12-CPGK					
Noise data sheet (Open/enclosed): Airflow data sheet: Derate data sheet (Open/enclosed):			ND50-OS	ND50-OSHHP / ND50-CS550				
			AF50-HHP DD50-OSHHP / DD50-CSHHP					
							Transient data sheet:	
	Standby	•			Prime			
Fuel consumption	kVA (kW		kVA (kW)		)			
Ratings	706 (565	706 (565)			640 (512)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	10.8	17.6	25.1	33.8	9.5	16.0	22.9	30.8
L/hr	49.00	80.00	114.00	154.00	43.00	73.00	104.00	140.00
Engine				D-4:		lp.: p.	-4:	
Engine			Standby Rating Prime Rating					
Engine manufacturer			Cummins VTA28-G5					
Engine model		Cast Iron, 40° V12 Cylinder						
Configuration Aspiration			Turbo Charged and After-Cooled					
Gross engine power output, kWm			612 560					
BMEP at set rated load, kPa			1751 1599					
Bore, mm			140					
Stroke, mm			152					
Rated speed, rpm			1500					
Piston speed, m/s			7.6					
Compression ratio			13.1:1					
Lube oil capacity, L			83					
Overspeed limit, rpm			1850 ±50					
Regenerative power, kW			75					
Governor type			Electronic					
Starting voltage			24 Volts DC					
<u> </u>			Г					
Fuel flow								
Maximum fuel flow, L/hr			337					
Maximum fuel inlet restriction, mm Hg			203					

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Air	Standby Rating	Prime Rating
Combustion air, m <sup>3</sup> /min	52.60	49.50
Maximum air cleaner restriction, kPa	6.2	•
Exhaust		
Exhaust gas flow at set rated load, m³/min	122.8	119.1
Exhaust gas temperature, °C	507.2	493.3
		•
Maximum exhaust back pressure, kPa	10.2	
Standard set-mounted radiator cooling  Ambient design, *C	10.2	
Standard set-mounted radiator cooling  Ambient design, *C		
Standard set-mounted radiator cooling  Ambient design, °C  Fan load, KW <sub>m</sub>	40	
Standard set-mounted radiator cooling	40 19.6	
Standard set-mounted radiator cooling  Ambient design, °C  Fan load, KW <sub>m</sub> Coolant capacity (with radiator), L	40 19.6 125	19310

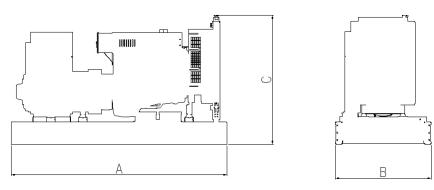
Weights*	Open	Enclosed
Unit dry weight kgs	5491	RTF
Unit wet weight kgs	5760	RTF

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

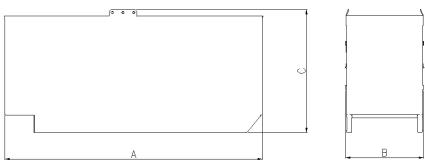
Dimensions	Length	Width	Height
Standard open set dimensions	4047	1608	1942
Enclosed set standard dimensions	RTF	RTF	RTF

### **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

Connection <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	150/125C	S/P	HC6G	380-440V
Wye, 3 Phase	150/125C	S/P	HC5F	380-415V

# **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) 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

kWx1000kWxSinglePhaseFactorx1000Voltagex1.73x0.8Voltage

#### See your distributor for more information.

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