Model: C80 D5 Frequency: 50 Fuel Type: Diesel

» Generator set data sheet 80 kVA Standby



Our energy working for you.™

Spec sheet:	SS3-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

	Standby				Prime	Prime		
Fuel consumption	kVA (kW				kVA (k\	kVA (kW)		
Ratings	80 (64)	80 (64)		72.5 (58	72.5 (58)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	1.0	1.8	2.7	3.7	1.1	1.8	2.6	3.3
L/hr	5	8	13	17	5	8	12	15

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins	•	
Engine model	4BTA3.9G1		
Configuration	4 Cycle; In-line; 4 Cylinde	r Diesel	
Aspiration	Turbo Charged and acket	Water aftercooled	
Gross engine power output, kWm	73	66	
BMEP at set rated load, kPa	1493	1352	
Bore, mm	102	-	
Stroke, mm	120		
Rated speed, rpm	1500		
Piston speed, m/s	6		
Compression ratio	16.5:1		
Lube oil capacity, L	9.5		
Overspeed limit, rpm	1800 ±50		
Regenerative power, kW	11.9		
Governor type	Mechanical		
Starting voltage	12 Volts DC		

Fuel flow

Maximum fuel flow, L/hr	31
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature (°C)	60

Δir

Air		
Combustion air, m³/min	4.3	4.2
Maximum air cleaner restriction, kPa	6.2	



Exhaust	Standby rating	Prime rating	
Exhaust gas flow at set rated load, m³/min	10.7	9.98	
Exhaust gas temperature, °C	505	475	
Maximum exhaust back pressure, kPa	10.2		
Standard set-mounted radiator cooling			
Ambient design, °C	50		
Fan load, KW _m	2		
Coolant capacity (with radiator), L	10.6		
Cooling system air flow, m3/min @ 12.7mmH2O	1.3		
Total heat rejection, BTU/min	2175	1980	
Maximum cooling air flow static restriction mmH2O	19.1		

Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40°C	45°C	50°C	55°C
Standby	79.8 (63.8)	77 (61.6)	74.8 (59.8)	72.4 (57.9)	70.1 (56.1)
Prime	71.9 (57.5)	70 (56)	67.9 (54.3)	65.8 (52.6)	63.8 (51)

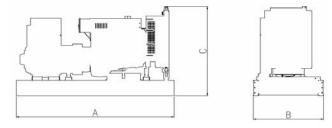
Weights*	Open	Enclosed
Unit dry weight kgs	1014	1654
Unit wet weight kgs	1050	1785

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

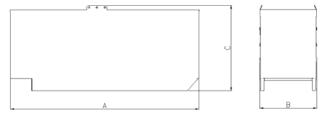
Dimensions	Length	Width	Height
Standard open set dimensions	1950	1046	1221
Enclosed set standard dimensions	2279.5	1084	1478

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
B681	Wye, 3 Phase	163/125	S/P	UC224F	380-415V

Ratings definitions

ited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
licable for supplying power to a stant electrical load for limited rs. Limited Time Running ver (LTP) is in accordance with 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	Base Load (Continuous) Power 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.
olio st rs ve	cable for supplying power to a cant electrical load for limited s. Limited Time Running er (LTP) is in accordance with 3528.	cable for supplying power to a cant electrical load for limited s. Limited Time Running er (LTP) is in accordance with 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

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.

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

