Model: C28D5 (X-Series)

Frequency: 50
Fuel Type: Diesel

» Generator set data sheet



Our energy working for you.™

Maximum air cleaner restriction, kPa

Spec sheet:			SS23-C	SS23-CPGK					
Noise data sheet (Open/enclosed):			ND50-0	ND50-OS550 / ND50-CS550					
Airflow data sheet: Derate data sheet (Open/enclosed):			AF50-55	AF50-550 DD50-OS550 / DD50-CS550					
			DD50-0						
Transient data sheet:		TD50-550							
	i		•		ı				
	Standby			Prime					
Fuel consumption	kVA (kW)					kVA (kW)			
Ratings	27.5 (22				24.8 (19.8)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	
gph	0.4	0.7	1.1	1.4	0.3	0.7	1.0	1.3	
L/hr	1.63	3.25	4.88	6.50	1.50	3.00	4.50	6.00	
Engine			Standb	Standby rating Prime rating					
Engine manufacturer			Cummir	ıs		1			
Engine model			X2.5G2	X2.5G2					
Configuration			4 Cycle; In-line; 3 Cylinder Diesel						
Aspiration			Naturally Aspirated						
Gross engine power output, kWm			27	27 24.37					
BMEP at set rated load, kPa			851	851 768.1					
Bore, mm			91.7						
Stroke, mm			127	127					
Rated speed, rpm			1500	1500					
Piston speed, m/s			7.62	7.62					
Compression ratio			18.5:1	18.5:1					
Lube oil capacity, L			6.5	6.5					
Overspeed limit, rpm			1650						
Regenerative power, kW			2						
Governor type			Mechanical - Std						
Starting voltage			12 Volts DC						
Fuel flow									
Maximum fuel flow, L/hr			40						
Maximum fuel inlet restriction, mm Hg			28.0249						
Maximum fuel inlet temperature (°C)			60						
Air									
Combustion air, m³/min			2.30			2.30			



Exhaust	Standby rating	Prime rating		
Exhaust gas flow at set rated load, m³/min	N/A	N/A		
Exhaust gas temperature, °C	660	660		
Maximum exhaust back pressure, kPa	3.38	3.38		
Standard set-mounted radiator cooling				
Ambient design, °C	50	50		
Fan load, KW _m	0.6	0.6		
Coolant capacity (with radiator), L	7	7		
Cooling system air flow, m3/sec @ 12.7mmH2O	0.78			
Total heat rejection, BTU/min 2561 N/A		N/A		
Maximum cooling air flow static restriction mmH2O	N/A			

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℃	40℃	45°C	50°C	55 °C
Standby	27.5 (22)	26.1 (20.9)	25.7 (20.58)	25.2 (20.17)	24.7 (19.76)
Prime	24.8 (20)	23.5 (18.81)	23.2 (18.52)	22.7 (18.16)	22.2 (17.78)

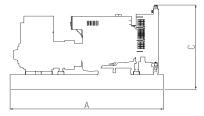
Weights*	Open	Enclosed
Unit dry weight kgs	441.5	766.5
Unit wet weight kgs	605	930

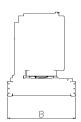
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions	Length	Width	Height
Standard open set dimensions	1667	930	1247
Enclosed set standard dimensions	2082	930	1448

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
-	3 Phase	163/125C	S/P	PI144E	380-415V
	3 Phase	150/125C	S/P	PI144F	380-440V

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.	varying electrical load for unlimited hours. Prime 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.

Formulas for calculating full load currents:

Three phase output Single phase output

 $\frac{\text{kWx1000}}{\text{Voltagex1. 73x0.8}} \frac{\text{kWxSingleP haseFactorx1000}}{\text{Voltage}}$

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

