GENERATOR SET DATA SHEET
125 kVA Standby

Spec sheet:	S4-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

Fuel Consumption

	Standby KW (kVA)				Prime KW (kVA)			
Ratings	100 (125)				90 (112.5)			
Load	¼	½	¾	Full	¼	½	¾	Full
US gph	1.8	3.2	4.9	6.4	1.8	3.1	4.6	5.7
L/hr	8	15	23	29	8	14	21	26

Engine

	Standby rating	Prime rating
Engine model	4ISBeG1	
Configuration	4 Cycle; In-line; 4 Cylinder Diesel	
Aspiraation	Turbo Charged and Air to Air Aftercooled	
Gross engine power output,	102	94
BMEP at set rated load, kPa	2023	1846
Bore, mm	102	
Stroke, mm	120	
Rated speed, rpm	1500	
Piston speed, m/s	7.2	
Compression ratio	17.3:1	
Lube oil capacity, L	11	
Overspeed limit, rpm	2100 ±50	
Regenerative power, KW	12.7	
Governor type	Electronic	
Starting voltage	12 Volts DC	

Fuel flow

Maximum fuel flow, L/hr	95.4
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature (°C)	60

Air

Combustion air, m^3/min	7	7
Maximum air cleaner restriction, kPa	6.2	

Exhaust	Standby Rating	Prime Rating
Exhaust gas flow at set rated load, m3/min	18.8	17.3
Exhaust gas temperature, °C	559	501
Maximum exhaust back pressure, kPa	10.2	

Standard Set-Mounted Radiator Cooling

Ambient design, °C	50	
Fan load, KWm	5	
Coolant capacity (with radiator), L	10	
Cooling system air flow, m3/sec @ 12.7mmH2O	3.7	
Total heat rejection, BTU/min	3923	2883
Maximum cooling air flow static restriction mmH2O	12.7	

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.

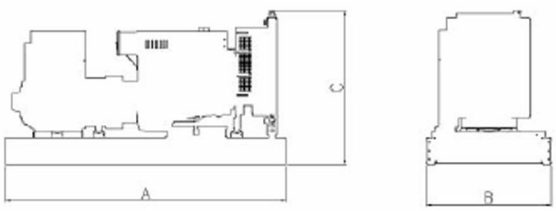
	27°C	40°C	45°C	50°C	55°C
Standby	125(100)	125(100)	121.3(97)	117.5(94)	113.8(91)
Prime	112.5(90)	112.5(90)	110.3(88.2)	106.9(85.5)	103.4(82.7)

Weights*	Open	Enclosed
Unit dry weight kgs	1162	1802
Unit wet weight kgs	1200	1935

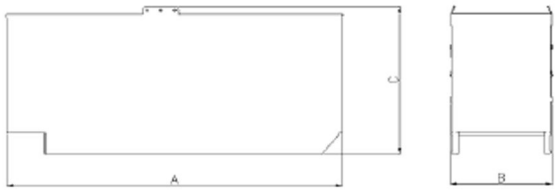
Dimensions	A	B	C
Standard open set dimensions	1977.0	1048	1311
Enclosed set standard dimensions	2342.5	1084	1478

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	Connection1	Temp rise degrees C	Duty2	Alternator	Voltage
B683	Wye, 3 Phase	150/125C	S/P	UC274c	440-480V

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

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

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor}}{\text{Voltage}}$$