

GENERATOR SET DATA SHEET

375 kVA Standby

Spec sheet:	SS8-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	200 (250)				180 (225)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	6.2	10.3	14.7	19.6	4.4	7.9	12.1	16.5
L/hr	28	47	67	89	20	36	55	75

Engine

Standby Rating Prime Rating

Engine model	QSL9 G5
Configuration	4 Cycle; In-line; 6 Cylinder Diesel
Aspiration	Turbo Charged and Charge
Gross engine power output, kWm	355. 307
BMEP at set rated load, kPa	2688 2309
Bore, mm	114
Stroke, mm	145
Rated speed, rpm	1800
Piston speed, m/s	8.7
Compression ratio	16.8:1
Lube oil capacity, L	26.5
Overspeed limit, rpm	2100 ±50
Regenerative power, KW	47
Governor type	Electronic
Starting voltage	24 Volts DC

Fuel Flow

Maximum fuel flow, L/hr	165
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	70

Air

Combustion air, m ³ /min	24.7	23.3
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m3/min	65.2	56.1
Exhaust gas temperature, °C	580	500
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator

Ambient design, °C	50	
Fan load, KWm	11	
Coolant capacity (with radiator), L	15	
Cooling system air flow, m3/min @ 12.7mmH2O	9.47	
Total heat rejection, BTU/min	12240	10190
Maximum cooling air flow static restriction	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	375(300)	375(300)	373.5 (298.8)	361.9 (289.5)	350.4 (280.3)
Prime	340.9 (272.7)	340.9 (272.7)	339.5 (271.6)	329 (263.2)	315 (252)

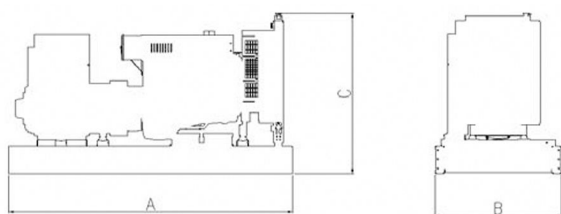
Weights*

	Open	Enclosed
Unit dry weight kgs	2518	4095
Unit wet weight kgs	2570	4734

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

Dimensions

	Length	Width	Height
Standard open set dimensions	3549	1100	2078
Enclosed set standard dimensions	4254	1424	2215

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
B252	Wye, 3 Phase	125/105	S/P	HC4E	416-480V
B683	Wye, 3 Phase	150/125C	S/P	HC4D	440-480

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	Single phase output
$\frac{\text{KW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{KW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$