GENERATOR SET DATA SHEET
1000 kVA Standby

Spec sheet:	SS11-CPGK
Noise data sheet (Open/enclosed):	ND50-OSHHP / ND50-CS550
Airflow data sheet:	AF50-HHP
Derate data sheet	DD50-OSHHP / DD50-CSHHP
Transient data sheet:	TD50-HHP

Fuel Consumption

	Standby KW (kVA)				Prime KW (kVA)			
Ratings	800 (1000)				725 (906.3)			
Load	¼	½	¾	Full	¼	½	¾	Full
US gph	12.6	23.5	34.6	46.7	12.2	21.4	30.5	41.4
L/hr	57	107	158	212	56	97	139	189

Engine

	Standby Rating	Prime Rating
Engine model	QSK23-G3	
Configuration	Cast Iron, In-line 6 Cylinder	
Aspiration	Turbo Charged and After-Cooled	
Gross engine power output, kWm	895	809
BMEP at set rated load, kPa	2510	2282
Bore, mm	170	
Stroke, mm	170	
Rated speed, rpm	1800	
Piston speed, m/s	10.21	
Compression ratio	16:1	
Lube oil capacity, L	102	
Overspeed limit, rpm	2100 ±50	
Regenerative power, KW	93	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel Flow

Maximum fuel flow, L/hr	685
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	71

Air

Combustion air, m^3/min	68	66
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m3/min	183	166
Exhaust gas temperature, °C	514	467
Maximum exhaust back pressure, kPa	10.1	

Standard Set-Mounted Radiator

Ambient design, °C	50	
Fan load, KWm	27	
Coolant capacity (with radiator), L	89	
Cooling system air flow, m3/min @ 12.7mmH2O	23.6	
Total heat rejection, BTU/min	22165	24628
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	1000(800)	1000(800)	1000(800)	1000(800)	RTF
Prime	906.3(725)	906.3(725)	906.3(725)	906.3 (725)	RTF

Weights*

	Open	Enclosed
Unit dry weight kgs	6387	N/A
Unit wet weight kgs	6528	N/A

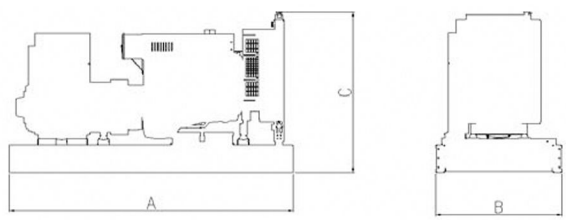
Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

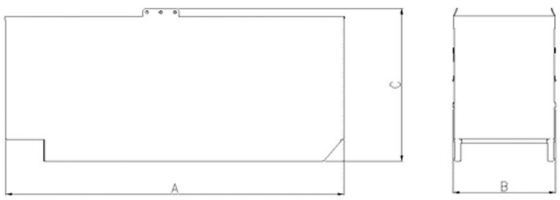
	Length(A)	Width(B)	Height(C)
Standard open set dimensions	4266	1879	2052
Enclosed set standard dimensions	N/A	N/A	N/A

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
B766	Wye, 3 Phase	125/150C	S/P	HC6H	400-480V

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

$$\frac{\text{KW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$