

GENERATOR SET DATA SHEET

Spec sheet:

SS12-CPGK

Noise data sheet (Open/enclosed):

ND50-OS550 / 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	200 (250)				180 (225)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	12	20	28.5	38	11	18.5	25.9	33.8
L/hr	54.5	90.8	129.8	173	50	84	118	154

Engine

Standby rating

Prime rating

Engine model

VTA28-G5

Configuration

Cast Iron, 40° V12 Cylinder

Aspiration

Turbo Charged and After-Cooled

Gross engine power output, kWm

971 608

BMEP at set rated load, kPa

1599 1448

Bore, mm

140

Stroke, mm

152

Rated speed, rpm

1800

Piston speed, m/s

9.1

Compression ratio

13.1:1

Lube oil capacity, L

83

Overspeed limit, rpm

2100 ±50

Regenerative power, KW

75

Governor type

Electronic

Starting voltage

24 Volts DC

Fuel Flow

Maximum fuel flow, L/hr

337

Maximum fuel inlet restriction, mm Hg

203

Maximum fuel inlet temperature (°C)

70

Air

Combustion air, m³/min

64.6 58.50

Maximum air cleaner restriction, kPa

6.2

Exhaust

Exhaust gas flow at set rated load, m ³ /min	142.8	131.5
Exhaust gas temperature, °C	502	474
Maximum exhaust back pressure, kPa	10.2	

Standard Set-Mounted Radiator

Ambient design, °C	50	
Fan load, KWm	19.5	
Coolant capacity (with radiator), L	125	
Cooling system air flow, m ³ /min @ 12.7mmH ₂ O	17.8	
Total heat rejection, BTU/min	26065	15130
Maximum cooling air flow static restriction	25.4	

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	706.3(565)	706.3(565)	688.8(551)	667.5(534)	RTF
Prime	640 (512)	640(512)	626.3(501)	606.3 (485)	RTF

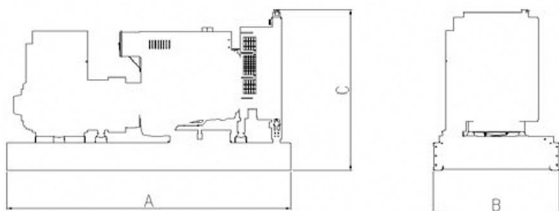
Weights*

	Open	Enclosed
Unit dry weight kgs	5491	RTF
Unit wet weight kgs	5760	RTF

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

Dimensions

	Length	Width	Height
Standard open set dimensions	4047	1608	1942
Enclosed set standard dimensions	RTF	RTF	RTF

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
B769	Wye, 3 Phase	125/150C	S/P	HCBG	380-480V
B682	Wye, 3 Phase	150/125C	S/P	HC5F	416-480V

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