

GENERATOR SET DATA SHEET

1587.5 kVA Standby

Spec sheet: SS16-CPGK
 Noise data sheet (Open/enclosed): ND60-OSHHP/ND60-CSHHP
 Airflow data sheet: AF60-HHP
 Derate data sheet: DD60-OSHHP/DD60-CSHHP
 Transient data sheet: RTF

Fuel Consumption	Standby KW (kVA)				Prime KW (kVA)			
	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
Ratings	1270(1587.5)				1120(1400)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	22.9	38.1	54.4	72.5	19.6	34.5	48.8	64.0
L/hr	104	173	248	330	89	157	222	291

Engine	Standby rating	Prime rating
Engine model	KTA50-G3	
Configuration	Cast Iron, 60° V16 Cylinder	
Aspiration	Turbocharged and charge air cooled	
Gross engine power output, kWm	1380	1220
BMEP at set rated load, kPa	1827	1620.
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1800	
Piston speed, m/s	9.5	
Compression ratio	13.1:1	
Lube oil capacity, L	204	
Overspeed limit, rpm	2100 ±50	
Regenerative power, KW	118	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel Flow	
Maximum fuel flow, L/hr	624
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	70

Air		
Combustion air, m ³ /min	110.5	104.9
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m3/min	240.6	223.6
Exhaust gas temperature, °C	525	520
Maximum exhaust back pressure, kPa	6.7	

Standard Set-Mounted Radiator

Ambient design, °C	40	
Fan load, KWm	36	
Coolant capacity (with radiator), L	345	
Cooling system air flow, m3/min @ 12.7mmH2O	27.1	
Total heat rejection, BTU/min	51000	44000
Maximum cooling air flow static restriction	0.12	

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	1587.5(1270)	1587.5(1270)	1587.5(1270)	1587.5(1270)	RTF
Prime	1400 (1120)	1400 (1120)	1400 (1120)	1400 (1120)	RTF

Weights*

	Open	Enclosed
Unit dry weight kgs	9099	RTF
Unit wet weight kgs	10075	RTF

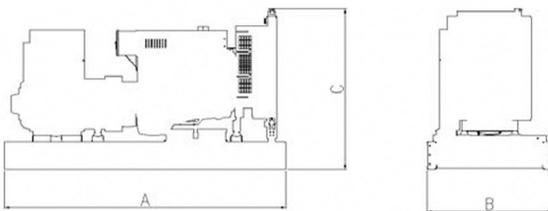
Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

	Length(A)	Width(B)	Height(C)
Standard open set dimensions	5105	2000	2238
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	Duty2	Alternator	Voltage
B595	#N/A	#N/A	#N/A	P7D	#N/A
B722	#N/A	#N/A	#N/A	P7D	#N/A
B723	#N/A	#N/A	#N/A	P7B	#N/A
	#N/A	#N/A	#N/A		#N/A

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

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