

Model: 832 DFJC
 Frequency: 50
 Fuel Type: Diesel

» Generator set data sheet
 1040 kVA Standby



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Spec sheet:	SS14-CPGK
Noise data sheet (Open/enclosed):	ND50-OSHHP / ND50-CS550
Airflow data sheet:	AF50-HHP
Derate data sheet (Open/enclosed):	DD50-OSHHP / DD50-CSHHP
Transient data sheet:	TD50-HHP

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	1040 (832)				935 (748)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	12.9	23.3	35.6	48.6	11.9	22.9	33.2	43.5
L/hr	59	106	162	221	54	104	151	198

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA38-G3	
Configuration	Cast Iron, 60° V12 Cylinder	
Aspiration	Turbo Charged and After-Cooled	
Gross engine power output, kW/m	895	806
BMEP at set rated load, kPa	1900	1700
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.9	
Compression ratio	13.9:1	
Lube oil capacity, L	135	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	86	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	454
Maximum fuel inlet restriction, mm Hg	102
Maximum fuel inlet temperature (°C)	60

Air		
Combustion air, m³/min	60	56
Maximum air cleaner restriction, kPa	6.2	



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	167	151
Exhaust gas temperature, °C	570	560
Maximum exhaust back pressure, kPa	10.13	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW _m	20	
Coolant capacity (with radiator), L	155	
Cooling system air flow, m3/min @ 12.7mmH2O	15	
Total heat rejection, BTU/min	31000	28000
Maximum cooling air flow static restriction mmH2O	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-CSHHP.

	27°C	40°C	45°C	50°C	55°C
Standby	1040 (832)	1040 (832)	1030 (824)	1006.3 (805)	RTF
Prime	936.3 (749)	936.3 (749)	926.3 (741)	913.8 (731)	RTF

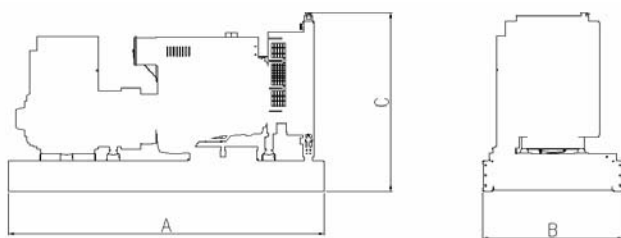
Weights*	Open	Enclosed
Unit dry weight kgs	7667	RTF
Unit wet weight kgs	8054	RTF

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

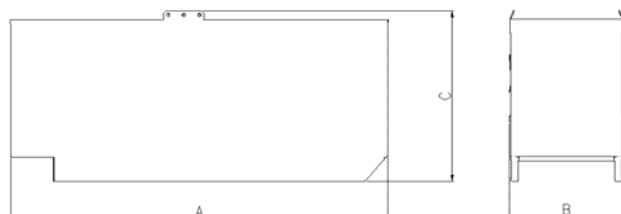
Dimensions	Length	Width	Height
Standard open set dimensions	4375	1785	2229
Enclosed set standard dimensions	RTF	RTF	RTF

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	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B729	Wye, 3 Phase	150/125C	S/P	HC6J	380-440V

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

$$\frac{\text{kW} \times \text{SingleP} \text{ haseFactor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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