

Model: 1012 DFHD
 Frequency: 60
 Fuel Type: Diesel

» Generator set data sheet
 1265 kVA Standby



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Spec sheet:	SS13-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			
	Kw (kVA)				Kw (kVA)			
Ratings	1012 (1265)				920 (1150)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	18.5	30.8	44.0	58.7	14.5	26.2	38.9	52.7
L/hr	84	140	200	267	66	119	177	240

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QST30-G4	
Configuration	Cast Iron, 50° V12 Cylinder	
Aspiration	Turbo Charged and After-Cooled	
Gross engine power output, kW/m	1112	1007
BMEP at set rated load, kPa	2427	2199
Bore, mm	140	
Stroke, mm	165	
Rated speed, rpm	1800	
Piston speed, m/s	9.9	
Compression ratio	14:1	
Lube oil capacity, L	154	
Overspeed limit, rpm	2100 ±50	
Regenerative power, kW	78	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	570
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	71

Air	
Combustion air, m³/min	80.5 75.1
Maximum air cleaner restriction, kPa	6.2



Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m ³ /min	220	197
Exhaust gas temperature, °C	525	495
Maximum exhaust back pressure, kPa	6.8	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, KW _m	30	
Coolant capacity (with radiator), L	220	
Cooling system air flow, m ³ /min @ 12.7mmH ₂ O	21.5	
Total heat rejection, BTU/min	28500	26390
Maximum cooling air flow static restriction mmH ₂ O	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-CSHHP.

	27°C	40°C	45°C	50°C	55°C
Standby	1110 (888)	1110 (888)	1110 (888)	1110 (888)	RTF
Prime	1000 (800)	1000 (800)	1000 (800)	1000 (800)	RTF

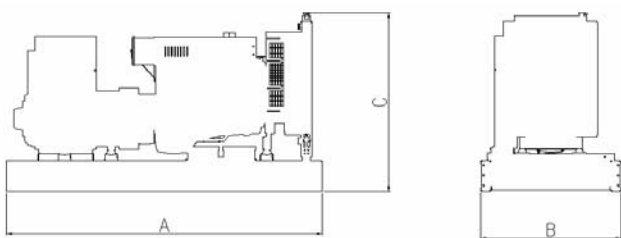
Weights*	Open	Enclosed
Unit dry weight kgs	7195	N/A
Unit wet weight kgs	7374	N/A

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

Dimensions	Length	Width	Height
Standard open set dimensions	4571	1702	2332
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	Connection ¹	Temp rise degrees C	Duty ²	Alternator	Voltage
B682	Wye, 3 Phase	150/125C	S/P	HC6K	416-480V
B766	Wye, 3 Phase	125/150C	S/P	HC6K	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

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

See your distributor for more information.

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