Model: C1675 D5
Frequency: 50
Fuel Type: Diesel

» Generator set data sheet
1675 kVA Standby

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Spec sheet:	**SS16-CPGK**
Noise data sheet (Open/enclosed):	**ND50-OSHHP/ND50-CSHHP**
Airflow data sheet:	**AF50-HHP**
Derate data sheet (Open/enclosed):	**DD50-OSHHP/DD50-CSHHP**
Transient data sheet:	**RTF**

Fuel consumption

	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	1675 (1340)				1400 (1120)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	20.2	36.4	55.6	75.8	18.0	34.1	48.8	63.5
L/hr	92	165	253	345	82	155	222	289

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA50G8	
Configuration	Cast Iron, 60° V16 Cylinder	
Aspiration	Turbo Charged and Low Temperature After-Cooled	
Gross engine power output, kWm	1429	1200
BMEP at set rated load, kPa	2275	1910
Bore, mm	159	
Stroke, mm	159	
Rated speed, rpm	1500	
Piston speed, m/s	7.9	
Compression ratio	14.9:1	
Lube oil capacity, L	178	
Overspeed limit, rpm	1850 ±50	
Regenerative power, kW	116	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow

Maximum fuel flow, L/hr	570	
Maximum fuel inlet restriction, mm Hg	203	
Maximum fuel inlet temperature (°C)	70	

Air

Combustion air, m^3/min	99.2	90.2
Maximum air cleaner restriction, kPa	6.2	

Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m^3/min	261	231
Exhaust gas temperature, °C	510	485
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, KW_m	29.7	
Coolant capacity (with radiator), L	310	
Cooling system air flow, m3/min @ 12.7mmH2O	21.7	
Total heat rejection, BTU/min	52430	42210
Maximum cooling air flow static restriction mmH2O	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-CSHHP.

	27°C	40°C	45°C	50°C	55°C
Standby	1675 (1340)	1675 (1340)	1668.8 (1335)	1616.3 (1293)	RTF
Prime	1400 (1120)	1400 (1120)	1400 (1120)	1400 (1120)	RTF

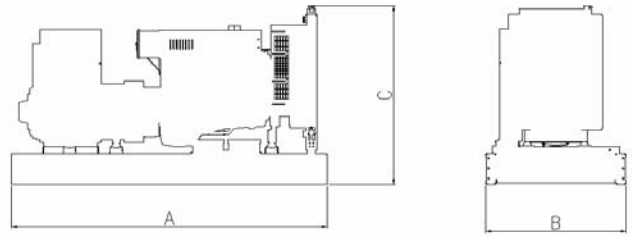
Weights*	Open	Enclosed
Unit dry weight kgs	10324	RTF
Unit wet weight kgs	10626	RTF

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

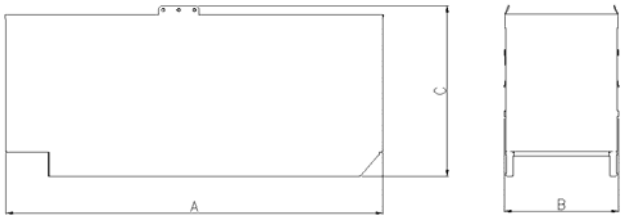
Dimensions	Length	Width	Height
Standard open set dimensions	5690	2033	2330
Enclosed set standard dimensions	RTF	RTF	RTF

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.

Power Generation

Alternator data

Feature code	Connection[1]	Temp rise degrees C	Duty[2]	Alternator	Voltage
B635	Wye, 3 Phase	125C	P	P7B	400-415V
B668	Wye, 3 Phase	125/105	S/P	P7E	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

$$\frac{\text{kWx1000}}{\text{Voltagex1. 73x0.8}}$$

Single phase output

$$\frac{\text{kWxSingleP haseFactor x1000}}{\text{Voltage}}$$