Generator set data sheet

Model: C1675 D5A
Frequency: 50 Hz
Fuel type: Diesel
1675 kVA Standby @ 50Hz

Spec sheet:	EA_T_CC_2_EN
Noise data sheet (open/enclosed):	ND50OS
Airflow data sheet:	RTF
Derate data sheet (open/enclosed)	DD50-OSHHP
Transient data sheet:	TD50-HHP

Fuel consumption

	Standby				Prime			
	kVA (kW)				**kVA (kW)**			
Ratings	1675 (1340)				1500 (1200)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
gph	20.9	38.5	59.3	78.9	20.9	37.4	52.7	66.4
L/hr	95	175	270	359	95	170	240	302

Engine

	Standby rating	**Prime rating**
Engine manufacturer	Cummins	
Engine model	KTA50GS8	
Configuration	Cast Iron, 60° V16 Cylinder	
Aspiration	Turbocharged 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	24 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	99.20	90.20
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, mm kPa	6.7	

Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, kW_m	51	
Coolant capacity (with radiator), L	348	
Cooling system air flow, m^3/sec @ 12.7mmH_2O	25.5	
Total heat rejection, BTU/min	52430	422120
Maximum cooling air flow static restriction mm H_2O	12.7	

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)	RTF	RTF	RTF	RTF
Prime	1500 (1200)	RTF	RTF	RTF	RTF

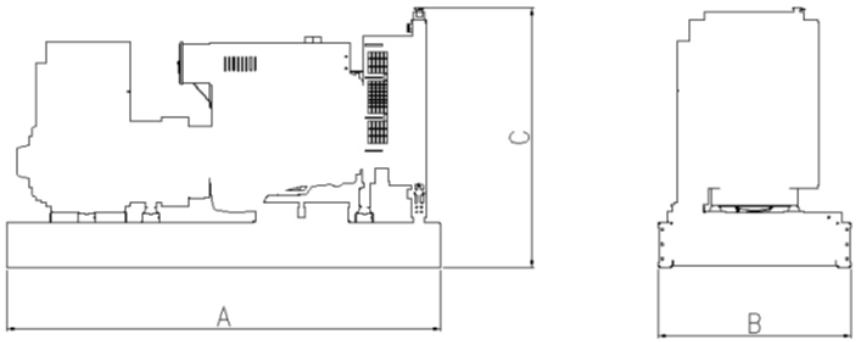
Weights*	Open	Enclosed
Unit dry weight kgs	10324	RTF
Unit wet weight kgs	10626	RTF

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

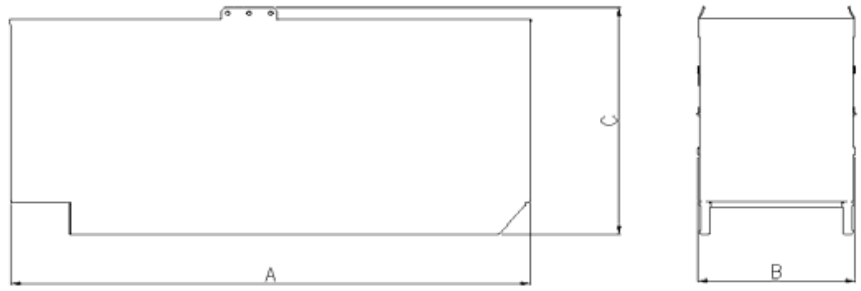
Dimensions	Length	Width	Height
Standard open set dimensions	5690	2033	2330
Enclosed set standard dimensions	RTF	RTF	RTF

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.

Alternator data

Feature code	Connection[1]	Temp rise degrees°C	Duty[2]	Alternator	Voltage
B667	Wye, 3 Phase	150/125	S/P	P7D	380-440 V
B668	Wye, 3 Phase	125/105	S/P	P7E	380-440 V
B670	Wye, 3 Phase	125C	P	P7C	380-440 V

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
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

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

For more information contact your local Cummins distributor or visit power.cummins.com

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EA_S_CC_28_EN (10/17)