Generator set data sheet

Model: C1675 D5A
Frequency: 50 Hz
Fuel type: Diesel

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)				1500 (1200)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	24.3	43.7	66.8	91.2	23.3	44.1	62.8	81.6
L/hr	92	165	253	345	88	167	238	309

Engine

	Standby rating	**Prime rating**
Engine manufacturer	Cummins	
Engine model	KTA50 GS8	
Configuration	Cast iron, 60 º V16 cylinder	
Aspiration	Turbocharged and low temperature after-cooled	
Gross engine power output, kWm	1429	1287
BMEP at set rated load, kPa	2275	2062
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	1725 ±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	Standby rating	Prime rating
Combustion air, m^3/min	99.3	94.9
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m^3/min	261	242
Exhaust gas temperature, °C	510	499
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling		
Ambient design, °C	40	
Fan load, kWm	30.0	
Coolant capacity (with radiator), L	496	
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	21.7	
Total heat rejection, Btu/min	52430	44750
Maximum cooling air flow static restriction mm H_2O	12.7	

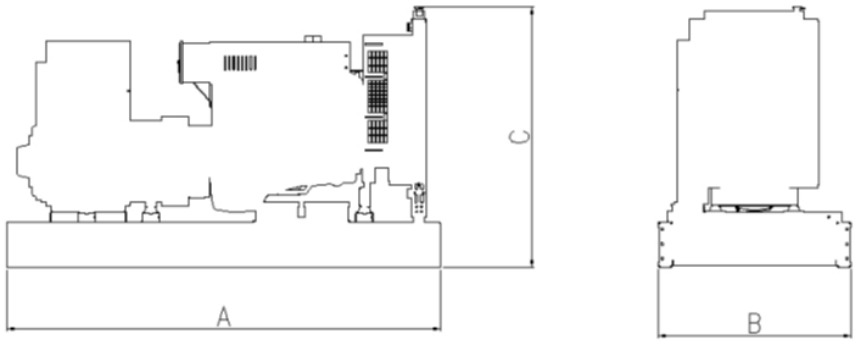
Weights*	Open	Enclosed
Unit dry weight kgs	10348	18199
Unit wet weight kgs	10967	18818

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

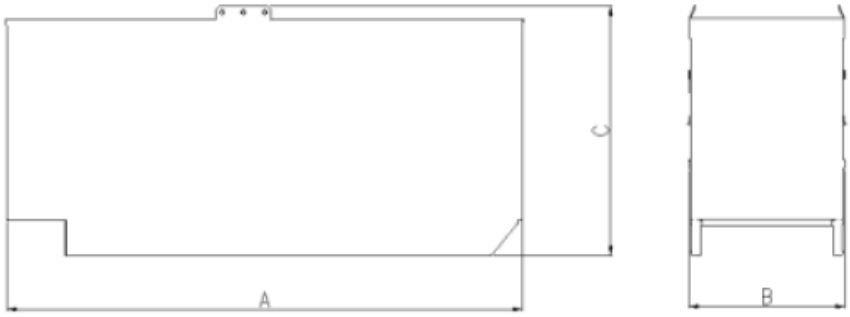
Dimensions	Length	Width	Height
Standard open set dimensions mm	5811	2033	2330
Enclosed set standard dimensions (with exhaust stack) mm	12192	2438	2896 (3233)

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

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	PI734D	380 – 440 V
Wye, 3-phase	125/105	S/P	MVSI804R	3300 V
Wye, 3-phase	125/105	S/P	HVSI804R	6300 – 6600 V
Wye, 3-phase	125/105	S/P	HVSI804R	10000 V
Wye, 3-phase	125/105	S/P	HVSI804R	10500 –11000 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) is 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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DS47-CPGK (10/17)