

## Generator set data sheet



**Model:** C1675 D5  
**Frequency:** 50 Hz  
**Fuel type:** Diesel

Spec sheet:	SS16-CPGK
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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	24.3	43.7	66.8	91.2	21.7	40.9	58.7	76.3
L/hr	92	165	253	345	82	155	222	289

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA50 G8	
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	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

<b>Air</b>	<b>Standby rating</b>	<b>Prime rating</b>
Combustion air, m <sup>3</sup> /min	99.3	90.0
Maximum air cleaner restriction, kPa	6.2	

<b>Exhaust</b>		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	261	231
Exhaust gas temperature, °C	510	485
Maximum exhaust back pressure, kPa	6.7	

<b>Standard set-mounted radiator cooling</b>		
Ambient design, °C	40	
Fan load, kWm	30.0	
Coolant capacity (with radiator), L	496	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	21.7	
Total heat rejection, Btu/min	52430	42210
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7	

<b>Optional set-mounted radiator cooling</b>		
Ambient design, °C	50	
Fan load, kWm	30.0	
Coolant capacity (with radiator), L	501	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	28.8	
Total heat rejection, Btu/min	62600	51850
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7	

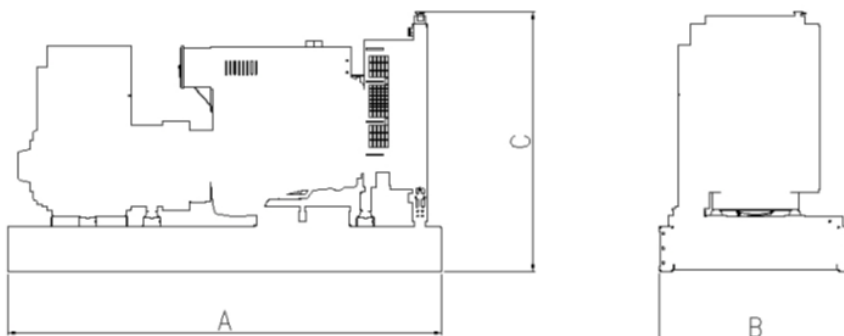
<b>Weights*</b>	<b>Open</b>	<b>Enclosed</b>
Unit dry weight kgs	10348	18199
Unit wet weight kgs	10967	18818

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

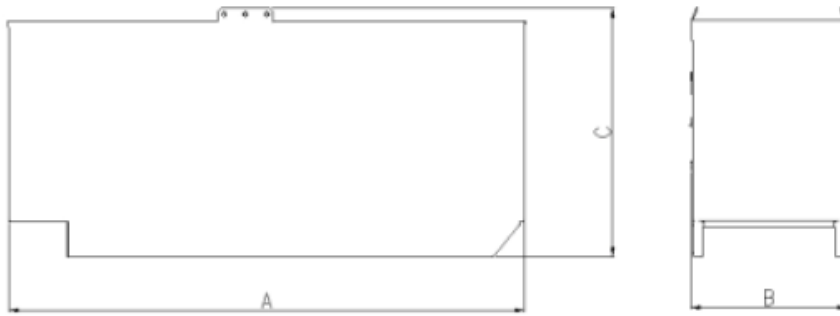
<b>Dimensions</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
Standard open set dimensions mm	5811	2033	2330
Enclosed set standard dimensions (with exhaust stack) mm	12192	2438	2896 (3233)

## 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 °C	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

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

### See your distributor for more information.

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