

» **Generator set data sheet**  
1675kVA Standby @ 50Hz



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

	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

<b>Engine</b>	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	KTA50GS8	
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	

<b>Fuel flow</b>	
Maximum fuel flow, L/hr	570
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	70
Maximum air cleaner restriction, kPa	6.2

<b>Air</b>	
Combustion air, m <sup>3</sup> /min	99.20

## Exhaust

	Standby rating	Prime rating
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	

## Standard set-mounted radiator cooling

Ambient design, °C	40	
Fan load, KW <sub>m</sub>	29.7	
Coolant capacity (with radiator), L	310	
Cooling system air flow, m3/sec @ 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)	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

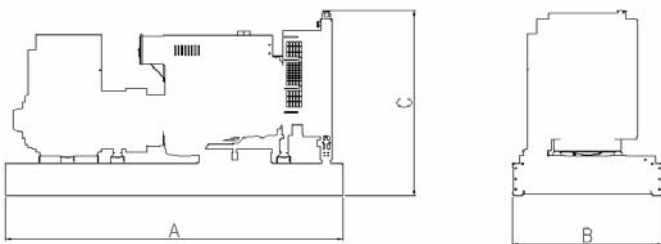
\* Weights represent a set with standard features. See outline drawing for weights of other configurations

## 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 <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B667	Wye, 3 Phase	150/125	S/P	P7D	380-440V
B668	Wye, 3 Phase	125/105	S/P	P7E	380-440V
B670	Wye, 3 Phase	125C	P	P7C	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

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

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