



» Generator set data sheet

**Model:** C3300 D5  
**Frequency:** 50  
**Fuel Type:** Diesel

<b>Spec sheet:</b>	SS18-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

Fuel consumption	Standby				Standby			
	kVA (kW)				kVA (kW)			
Ratings	3325 (2660)				3000 (2400)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	41.5	70.8	108.1	141.5	39.8	70.3	100.4	130.1
L/hr	189.00	322.00	492.00	644.00	181.00	320.00	457.00	592.00

Engine	Standby Rating	Standby Rating
Engine manufacturer	Cummins	
Engine model	QSK78G6	
Configuration	Cast Iron, 60° V18 Cylinder	
Aspiration	Turbo Charged and Low Temperature After-Cooled	
Gross engine power output, kWm	2790	2515
BMEP at set rated load, kPa	2303	2160
Bore, mm	170	
Stroke, mm	190	
Rated speed, rpm	1800	
Piston speed, m/s	11.4	
Compression ratio	15.3:1	
Lube oil capacity, L	413	
Overspeed limit, rpm	2050 ±50	
Regenerative power, kW	266	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	2225
Maximum fuel inlet restriction, mm Hg	17
Maximum fuel inlet temperature (°C)	70

Air	Standby Rating	Standby Rating
Combustion air, m <sup>3</sup> /min	223.00	211.00
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m <sup>3</sup> /min	522.0	487.0
Exhaust gas temperature, °C	451	434
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling		
Ambient design, °C	38	
Fan load, KW <sub>m</sub>	88	
Coolant capacity (with radiator), L	450	
Cooling system air flow, m <sup>3</sup> /sec @ 12.7mmH <sub>2</sub> O	50	
Total heat rejection, BTU/min	113	97
Maximum cooling air flow static restriction mmH <sub>2</sub> O	1.69	

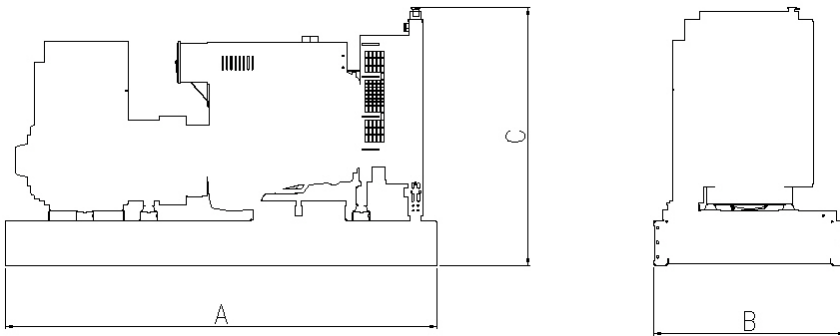
Weights*	Open	Enclosed
Unit dry weight kgs	25157	N/A
Unit wet weight kgs	25800	N/A

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

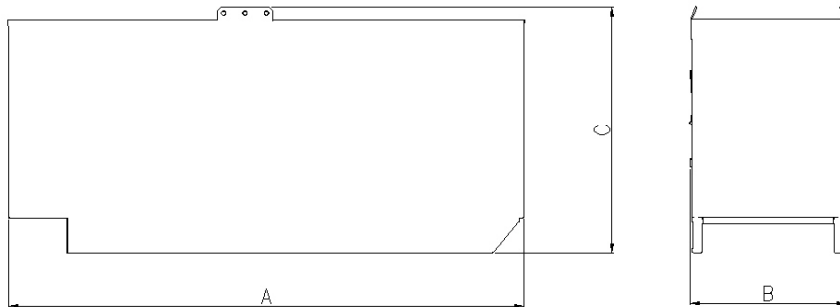
Dimensions	Length	Width	Height
Standard open set dimensions	7158	2251	2535
Enclosed set standard dimensions	N/A	N/A	N/A

### 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 <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	125/105C	S/P	RTF	380-440V
Wye, 3 Phase	120/105C	S/P	RTF	11000V
Wye, 3 Phase	125/105C	P/C	RTF	6600V
Wye, 3 Phase	80-125C	S/P/C	HVS1804R,S,T,W	11000V

## 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

$$\frac{\text{kW} \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

### See your distributor for more information.

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