

Generator set data sheet



Model: C2750 D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	SS18-CPGK
Noise data sheet (open):	ND50-OSHHP
Airflow data sheet:	AF50-HHP
Derate data sheet (open):	DD50-OSHHP
Transient data sheet:	TD50-HHP

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	2750 (2200)				2500 (2000)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	43.2	74.4	106.6	138.3	40.2	69.0	97.8	126.6
L/hr	163	284	404	524	152	261	370	479

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	QSK78-G9	
Configuration	Cast iron, 60 ° V18 cylinder	
Aspiration	Turbocharged and low temperature aftercooled	
Gross engine power output, kWm	2304	2095
BMEP at set rated load, kPa	2375	1613
Bore, mm	170	
Stroke, mm	190	
Rated speed, rpm	1500	
Piston speed, m/s	9.5	
Compression ratio	15.5:1	
Lube oil capacity, L	413	
Overspeed limit, rpm	1725 ±50	
Regenerative power, kW	189	
Governor type	Electronic	
Starting voltage	24V Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	2225
Maximum fuel inlet restriction, mm Hg (clean filter)	127
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, m ³ /min	186	147
Maximum air cleaner restriction, kPa	6.2	

Exhaust

Exhaust gas flow at set rated load, m ³ /min	415	326
Exhaust gas temperature, °C	422	410
Maximum exhaust back pressure, kPa	6.7	

Standard set-mounted radiator cooling

Ambient design, °C	RTF	
Fan load, kW _m	RTF	
Coolant capacity (with radiator), L	RTF	
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	RTF	
Total heat rejection, Btu/min	RTF	RTF
Maximum cooling air flow static restriction mm H ₂ O	RTF	

Weights*

	Open
Unit dry weight kgs	18549
Unit wet weight kgs	19145

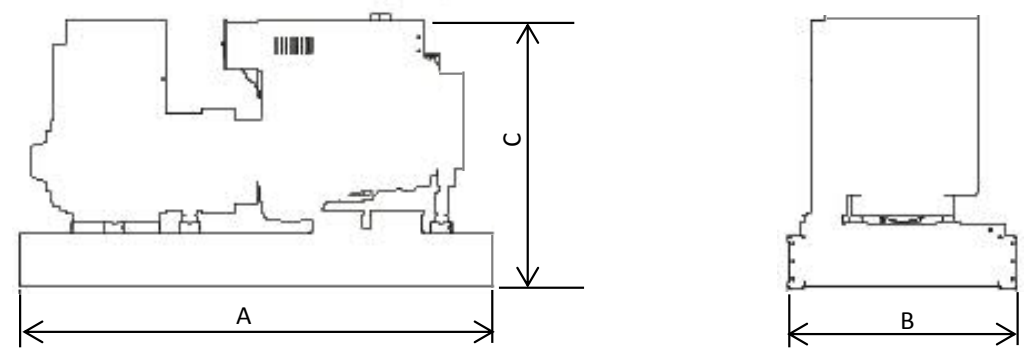
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

	Length	Width	Height
Standard open set dimensions	5670	2305	2708

Genset outline

Open 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	150/125/105C	S/P/C	LVS1804S	380-440V
Wye, 3-phase	80-150C	S/P/C	MVS1804R,S,T,W	3300V
Wye, 3-phase	80-125C	S/P/C	HVS1804S,T,W,X	6600/11000V

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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents:

$$\frac{\text{Three phase output}}{\text{Voltage} \times 1.73 \times 0.8} = \frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

$$\frac{\text{Single phase output}}{\text{Voltage}} = \frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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