Generator set data sheet

Model: C2750 D5e
Frequency: 50 Hz
Fuel type: Diesel
Emissions level: Tier 2

Spec sheet:	EMERS-5867-EN
Noise data sheet:	MSP-1187
Airflow data sheet:	AF50-HHP
Derate data sheet:	DD50-OSHHP
EPA sheet:	EPA-1257
PTS sheet:	PTS-323

Fuel consumption	**Standby**				**Prime**				**Continuous**			
	kVA (kW)				**kVA (kW)**				**kVA (kW)**			
Ratings	2750 (2200)				2500 (2000)				2000 (1600)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	43.9	83.2	116.0	145.3	40.7	76.1	108.0	135.5	36.2	61.8	90.3	113.6
L/hr	166	315	439	550	154	288	409	513	137	234	342	430

Engine	**Standby rating**	**Prime rating**	**Continuous rating**
Engine manufacturer	Cummins		
Engine model	QSK78-G15		
Configuration	Cast iron, 60º V18 cylinder		
Aspiration	Turbocharged and low temperature after-cooled		
Gross engine power output, kWm	2539	2304	1759
BMEP at set rated load, kPa	2372	2117	1606
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	1850 ±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	127
Maximum fuel inlet temperature, °C	71

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Air	Standby rating	Prime rating	Continuous rating
Combustion air, m^3/min	197	188	168
Maximum air cleaner restriction, kPa	6.22		

Exhaust

Exhaust gas flow at set rated load, m^3/min	466	458	6.8
Exhaust gas temperature, °C	463	443	448
Maximum exhaust back pressure, kPa	6.8		

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 mm H_2O	RTF	
Total heat rejection, Btu/min	RTF	RTF
Maximum cooling air flow static restriction mm H_2O	RTF	

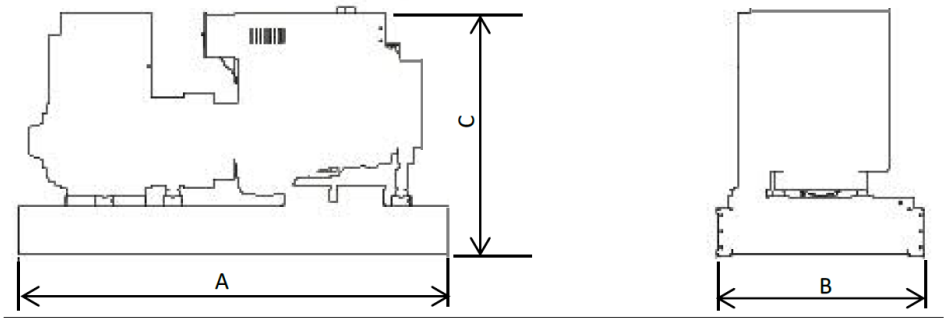
Weights*	Open
Unit dry weight kgs	18549
Unit wet weight kgs	19145

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

Dimensions	Length (A)	Width (B)	Height (C)
Standard open set dimensions	5691	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.

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Alternator data

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	80-150	S/P/C	LVSI804S,T,W,X	380-440
Wye, 3-phase	80-150	S/P/C	MVSI804R,S,T,W	3300V
Wye, 3-phase	80-125	S/P/C	HVSI804S,T,W,X	

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

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

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