



Generator set data sheet

Model: C150 D2R
Fuel type: Diesel
Document No.: EMERD-5930



Fuel consumption 50 Hz	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	165 (132)				150 (120)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
L/hr	14	23	32	39	12	22	30	37

Fuel consumption 60 Hz	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	150 (188)				135 (169)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
L/hr	16	28	37	45	15	26	34	42

Engine (EU stage IIIA)	Standby rating	Prime rating
Gross engine power output 50 Hz/60 Hz, kWm	213 / 242	182 / 208
BMEP at set rated load 50 Hz/60 Hz, kPa	2537 / 2404	2172 / 2070
Engine manufacturer	Cummins	
Engine model	QSB7G5	
Configuration	4 cycle; in-line; 6 cylinder	
Aspiration	Turbo-charged and charge air cooled	
Bore, mm	107	
Stroke, mm	124	
Rated speed 50 Hz/60 Hz, rpm	1500 / 1800	
Piston speed 50 Hz/60 Hz, m/s	6.2 / 7.4	
Compression ratio	17.2:1	
Lube oil capacity, L	18.9	
Overspeed limit 50 Hz/60 Hz, rpm	1800	
Regenerative power 50 Hz/60 Hz, kW	14 / 19	
Governor type	Elec.	

Fuel flow	
Maximum fuel flow, L/hr	106
Maximum fuel inlet restriction (clean/dirty filter), mm Hg	127-254
Maximum fuel inlet temperature, °C	71

Air	
Combustion air 50 Hz/60 Hz, m ³ /min	12.72 / 16.14
Maximum air cleaner restriction (clean/dirty filter), kPa	3.7-6.2

Exhaust	
Exhaust gas flow at set rated load 50 Hz/60 Hz, m ³ /min	35.82 / 43.92
Exhaust gas temperature 50 Hz/60 Hz, °C	561 / 532
Maximum exhaust back pressure, kPa	10.2

Standard set-mounted radiator cooling

	Standby rating	Prime rating
Ambient design, °C	50	
Fan load, kWm 1500 rmp/1800 rpm	6.9 / 12.7	
Coolant capacity (with radiator), L	26.7	
Cooling system air flow, m ³ /min 1500 rpm/1800 rpm	4.51 / 5.88	
Total heat rejection, Btu/min 1500 rpm/1800 rpm	6516 / 7644	5825 / 6730
Max cooling air restriction, kPa	0.249	

Weights*

Unit dry weight kgs	2922
Unit wet weight kgs	2948

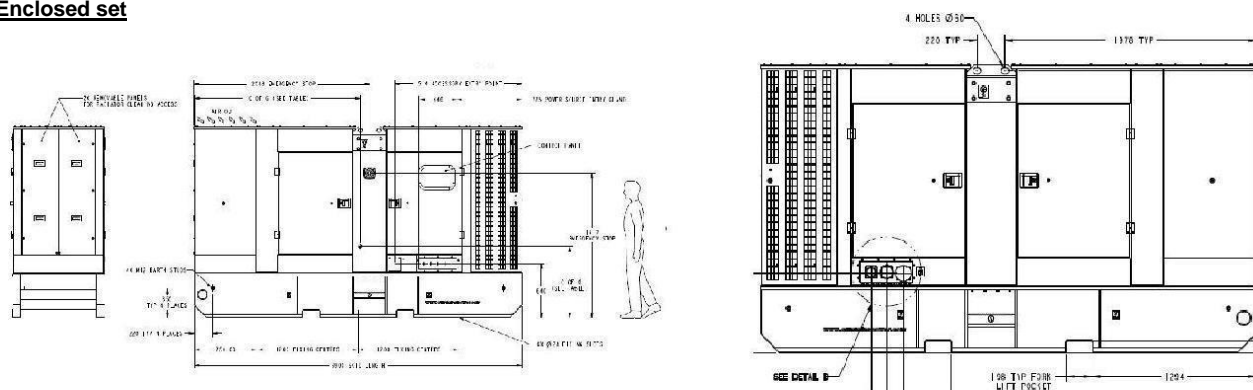
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

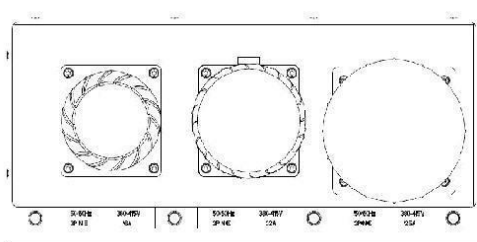
	Length	Width	Height
Enclosed set standard dimensions, m	3.9	1.1	2.2

Genset outline

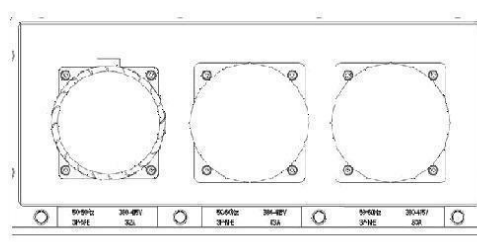
Enclosed set



Power Receptacle Socket on set: 125A, 63A, 32A, 16A 3 Phase sockets combination



RECEPTACLES (OPTION 1)
50/60 Hz 380-415V 3P N E



RECEPTACLES (OPTION 2)
50/60 Hz 380-415V 3P N E

Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

Alternator data

Alternator	Connection	Temp rise °C	Duty	Voltage 50 Hz, L-L	Voltage 60 Hz, L-L
UC274F	Series Star, 3Ph	163/27 / 125/40	Standby/Prime	380, 400, 415, 440	416, 440, 460, 480
	Parallel Star, 3Ph	163/27 / 125/40	Standby/Prime	190, 200, 208, 220	208, 220, 230, 240
	Series Delta, 3Ph	163/27 / 125/40	Standby/Prime	220, 230, 240, 254	240, 254, 266, 277

Transient performance class

Meets ISO 8528-5: 2005-Class G3

Details of voltage and frequency performance data available upon request

Noise data 50Hz

Enclosed set sound power level, LwA	95 dB
Enclosed set sound pressure level, dB(A) @ 75% prime, 7m	67 dB(A)

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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