



Generator Set Data Sheet

Model: C150D6D
Frequency: 60 Hz
Fuel Type: Diesel
KW Rating: 150 Standby
 135 Prime
Emissions level: EPA Tier 3, Stationary Emergency

Exhaust Emission Data Sheet:	EDS-3044
Exhaust Emission Compliance Sheet:	EPA-2033
Sound Performance Data Sheet:	MSP-4008
Cooling Performance Data Sheet:	MCP-2048
Prototype Test Summary Data Sheet:	PTS-636

Fuel Consumption	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
US gph	4.7	6.9	9.2	11.7	4.4	6.4	8.4	10.7
L/hr	17.78	26.11	34.82	44.28	16.65	24.22	31.79	40.49

Engine	Standby rating	Prime rating
Engine Manufacturer	Cummins Inc.	
Engine Model	QSB7-G5	
Configuration	Cast iron, in-line, 6 cylinders	
Aspiration	Turbocharged and charge air cooled	
Gross Engine Power Output, kWm (bhp)	242 (324)	208 (279)
BMEP at set rated load, kPa (psi)	1763 (255.7)	1601 (232)
Bore, mm (in)	107 (4.21)	
Stroke, mm (in)	124 (4.88)	
Rated Speed, rpm	1800	
Piston Speed, m/s (ft/min)	7.44 (1464)	
Compression Ratio	17.2:1	
Lube Oil Capacity, L (qt)	17.4 (18.38)	
Overspeed Limit, rpm	2250	

Fuel Flow

Maximum Fuel Flow, L/hr (US gph)	103 (27.0)
Maximum Fuel Inlet Restriction with Clean Filter, mm Hg (in Hg)	127 (5.0)

Air	Standby rating	Prime rating
Combustion Air, m ³ /min (scfm)	14.78 (522)	14.22 (502)
Maximum Air Cleaner Restriction with Clean Filter, kPa (in H ₂ O)	3.7 (15)	

Exhaust

Exhaust Flow at set rated load, m ³ /min (cfm)	35.62 (1258)	33.66 (1189)
Exhaust Temperature, °C (°F)	466.67 (872)	453.89 (849)
Maximum Back Pressure, kPa (in H ₂ O)	10 (40.19)	10 (40.19)
Actual Exhaust Back Pressure with CPG Sound level 2 Enclosure Muffler, kPa (in H ₂ O)	9.5 (38.18)	8.6 (34.36)
Actual Exhaust Back Pressure with CPG Weather Enclosure Muffler, kPa (in H ₂ O)	7.2 (28.93)	6.5 (26)

Standard Set-mounted Radiator Cooling

Ambient Design, °C (°F)	50 (122)	
Fan Load, kW _m (HP)	14.02 (18.8)	
Coolant Capacity (with radiator), L (US Gal)	22 (5.9)	
Cooling System Air Flow, m ³ /min (scfm)	305.82 (10800)	
Total Heat Rejection, MJ/min (Btu/min)	7.91 (7499)	7.25 (6871)
Maximum Cooling Air Flow Static Restriction, kPa (in H ₂ O)	0.12 (0.5)	

Weight²

Unit Wet Weight kgs (lbs)	1390 (3064)
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Notes:

¹ For non-standard remote installations contact your local Cummins Power Generation representative.

² Weights represent a set with standard features. See outline drawing for weights of other configurations.

Derating Factors

Standby	Engine power available up to 3425 m (11237 ft.) at ambient temperatures up to 40° C (104° F) and 2298 m (7540 ft.) at 50° C (122° F). Consult your Cummins distributor for temperature and ambient requirements outside these parameters.
Prime	Engine power available up to 2743 m (9000 ft.) at ambient temperatures up to 40° C (104° F) and 2151 m (7057 ft.) at 50° C (122° F). Consult your Cummins distributor for temperature and ambient requirements outside these parameters.

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.

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Alternator Data

Standard Alternators	Single phase ²	Three Phase ¹					
Maximum Temperature Rise above 40 °C Ambient	120 °C	120 °C					
Feature Code	BB88-2	B946-2	B986-2	B952-2	B943-2	BB86-2	BB88-2
Alternator Data Sheet Number	ADS212	ADS-210	ADS-210	ADS-209	ADS-209	ADS-210	ADS-212
Voltage Ranges	120/240	120/208	120/240	347/600	277/480	127/220	120/208, 127/220, 277/480
Voltage Feature Code	R104	R098-2	R106-2	R114-2	R002-2	R020-2	R098, R020, R106, R002
Surge kW	205.9	210.2	211.4	211.1	211.4	210.7	211.6
Motor Starting kVA (at 90% sustained voltage) Shunt	770	563	563	516	516	563	770
Motor Starting kVA (at 90% sustained voltage) PMG	920	663	663	607	607	663	920
Full Load Current Amps at Standby Rating	625	520	451	180	226	492	226 to 520

Alternator Data

Standard Alternators	Single phase ²	Three phase ¹				
Maximum Temperature Rise above 40 °C Ambient	105 °C	105 °C	105 °C	105 °C	105 °C	105 °C
Feature Code	BB87-2	BB93-2	BB94-2	BB95-2	BB92-2	BB85-2
Alternator Data Sheet Number	ADS-212	ADS-210	ADS-210	ADS-209	ADS-209	ADS-210
Voltage Ranges	120/240	120/208	120/240	277/480	347/600	127/220
Voltage Feature Code	R104-2	R098-2	R106-2	R002-2	R114-2	R020-2
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Notes:

¹ Single phase power can be taken from a three phase generator set at up to 2/3 set rated 3-phase kW at 1.0 power factor

² Full single phase output up to full set rated 3-phase kW at 1.0 power factor

Formulas for Calculating Full Load Currents:

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

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

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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