



Model: C125D6C Frequency: 60 Hz Fuel type: Diesel

KW rating: 125 Standby

112.5 Prime

Emissions level: EPA Tier 3, Stationary Emergency

Exhaust emission data sheet:	EDS-1254
Exhaust emission compliance sheet:	EPA-1354
Sound performance data sheet:	MSP-1304
Cooling performance data sheet:	MCP-1404
Prototype test summary data sheet:	PTS-451

	Standby				Prime			
Fuel Consumption	kW (kVA)				kW (kVA)			
Ratings	125 (156)				112.5 (141)	ı		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	3.30	6.10	8.30	10.30	3.00	5.60	8.40	9.30
L/hr	12.49	23.09	31.42	38.99	11.36	21.20	31.80	35.20

Engine	Standby rating	Prime rating
Engine manufacturer	Cummins Inc.	Tating
Engine model	QSB5-G6	
Configuration	Cast iron, in-line, 4 cylinder	
Aspiration	Turbocharged and charge air cod	oled
Gross engine power output, kWm (bhp)	155 (208)	136 (183)
BMEP at set rated load, kPa (psi)	2317 (336)	2041 (296)
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	17.3:1	
Lube oil capacity, L (qt)	12.2 (12.9)	
Overspeed limit, rpm	2250	

### **Fuel Flow**

Maximum fuel flow, L/hr (US gph)	95 (25.0)
Maximum fuel inlet restriction with clean filter, mm Hg (in Hg)	127 (5.0)

Air	Standby rating	Prime rating
Combustion air, m3/min (scfm)	10.42 (368)	10.48 (370)
Maximum air cleaner restriction with clean filter, kPa (in H2O)	1.25 (5)	_

#### Exhaust

Exhaust flow at set rated load, m³/min (cfm)	25.6 (903)	24.4 (861)
Exhaust temperature, °C (°F)	528 (982)	489 (913)
Maximum back pressure, kPa (in H₂O)	10 (40.19)	10 (40.19)
Actual exhaust back pressure with CPG sound level 2 enclosure muffler, kPa (in H₂O)	0 (0)	0 (0)
Actual exhaust back pressure with CPG weather enclosure muffler, kPa (in H₂O)	0 (0)	0.5 (2)

## Standard Set-mounted Radiator Cooling

Ambient design, ° C (° F)	40 (104)	
Fan load, kW <sub>m</sub> (HP)	5.22 (7)	
Coolant capacity (with radiator), L (US Gal)	16 (4.2)	
Cooling system air flow, m³/min (scfm)	218.04 (7700)	_
Total heat rejection, MJ/min (Btu/min)	14.17 (13429)	13.06 (12382)
Maximum cooling air flow static restriction, kPa (in H <sub>2</sub> O)	0.12 (0.5)	_

# Weight<sup>2</sup>

Unit wet weight kgs (lbs)	1173 (2586)

#### Notes:

# **Derating Factors**

Standby	Engine power available up to 1097 m (3600 ft) and ambient temperatures up to 40°C (104°F). Above these conditions, derate at 35% per 300 m (1000 ft) and 53% per 10°C (18°F)
Prime	Engine power available up to 1158 m (3800 ft) and ambient temperatures up to 40°C (104°F). Above these conditions, derate at 35% per 300 m (1000 ft) and 58% per 10°C (18°F)

## **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.

<sup>&</sup>lt;sup>1</sup> For non-standard remote installations contact your local Cummins Power Generation representative.

 $<sup>^{2}</sup>$  Weights represent a set with standard features. See outline drawing for weights of other configurations.

#### **Alternator Data**

Standard Alternators	Single phase <sup>2</sup>		Three phase <sup>1</sup>			
Maximum temperature rise above 40 ℃ ambient	120 ℃	120 ℃	120 ℃	120 °C	120 ℃	120 ℃
Feature code	BB90-2	B946-2	B986-2	B943-2	B952-2	BB86-2
Alternator data sheet number	ADS-209	ADS-208	ADS-208	ADS-208	ADS-208	ADS-208
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
Surge kW	137.8	141.8	141.8	143.5	143.5	142.6
Motor starting kVA (at 90% sustained voltage) Shunt		516	516	422	422	516
Motor starting kVA (at 90% sustained voltage) PMG		607	607	497	497	607
Full load current amps at standby rating	521	434	376	188	188	411

#### **Alternator Data**

Standard Alternators	Single phase <sup>2</sup>			Three phase <sup>1</sup>		
Maximum temperature rise above 40 °C ambient	105 ℃	105 ℃	105 ℃	105 ℃	105 ℃	105 ℃
Feature code	BB91-2	BB93-2	BB94-2	BB95-2	BB92-2	BB85-2
Alternator data sheet number	ADS-209	ADS-209	ADS-209	ADS-208	ADS-208	ADS-209
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
Surge kW	137.8	143.5	143.5	143.5	143.5	143.8
Motor starting kVA (at 90% sustained voltage) Shunt		516	516	422	422	516
Motor starting kVA (at 90% sustained voltage) PMG		607	607	497	497	607
Full load current amps at standby rating	521	434	376	188	150	411

## Formulas for Calculating Full Load Currents:

Three phase output Single phase output

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 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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<sup>&</sup>lt;sup>1</sup> 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

<sup>&</sup>lt;sup>2</sup> Full single phase output up to full set rated 3-phase kW at 1.0 power factor