Model: GGLB

KW rating: 150 natural gas standby

140 propane standby

Frequency: 60

Fuel type: Natural gas

Propane

EPA Emissions

> Generator set data sheet



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Exhaust emission data sheet:	EDS-1030	
Exhaust emission compliance sheet:		
Sound performance data sheet:	MSP-1009	
Cooling performance data sheet:	MCP-135	
Prototype test summary data sheet:	PTS-268	
Standard set-mounted radiator cooling outline:	0500-4207	

Eucl	Natur	Natural gas							Propane							
Fuel	Stand				Prime				Standby				Prime			
consumption	kW (k	VA)			kW ((VA)			kW (k	(AV			kW (k	(VA)		
Ratings	150 (1	88)							140 (1	75)						
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
scfh	689	1079	1520	1950					261	407	567	784				
m³/hr	19.5	30.5	43.0	55.2					7.4	11.5	16.0	22.2				

	Natural gas		Propane		
Engine	Standby rating	Prime rating	Standby rating	Prime rating	
Engine model	GM8.1L-HO				
Configuration	Cast iron, V 8 cylind	ler			
Aspiration	Turbocharged and	CAC			
Gross engine power output, kWm (bhp)	167.8 (225.0)		156.9 (210)		
BMEP at rated load, kPa (psi)	1379.0 (200.0)		1289 (187)		
Bore, mm (in)	108.0 (4.25)		108.0 (4.25)		
Stroke, mm (in)	111.0 (4.37)		111.0 (4.37)		
Rated speed, rpm	1800		1800		
Piston speed, m/s (ft/min)	6.7 (1310.0)		6.7 (1310.0)		
Compression ratio	9.1:1		9.1:1		
Lube oil capacity, L (qt)	7.6 (8.0)		7.6 (8.0)		
Overspeed limit, rpm	2400 ± 50		2400 ± 50		
Regenerative power, kW	15.00		15.00		

Fuel flow

Minimum operating pressure, kPa (in H ₂ O)	1.7 (7.0)	1.7 (7.0)	
Maximum operating pressure, kPa (in H ₂ O)	3.4 (13.6)	3.4 (13.6)	

	Natural gas		Propane		
Air	Standby rating	Prime rating	Standby rating	Prime rating	
Combustion air, m³/min (scfm)	9.5 (335.0)		9.1 (320)		
Maximum air cleaner restriction, kPa (in H ₂ O)	1.5 (6.0)		1.5 (6.0)		
Alternator cooling air, m³/min (scfm)	37.0 (1308.0)		37.0 (1308.0)		

Exhaust

Exhaust flow at rated load, m³/min (cfm)	29.7 (1050.0)	28.3 (1000.0)	
Exhaust temperature, °C (°F)	615.0 (1139.0)	660.0 (1220.0)	
Maximum back pressure, kPa (in H ₂ O)	8.7 (35.0)	8.7 (35.0)	
Available back pressure for additional sound attenuation			
and piping, kPa (in H ₂ O)	2.5 (10.0)	2.5 (10.0)	

Standard set-mounted radiator cooling

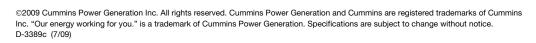
Ambient design, °C (°F)	50 (122)	50 (122)	
Fan load, kW (HP)	6.3 (8.5)	6.3 (8.5)	
Coolant capacity (with radiator), L (US gal)	22.3 (5.9)	22.3 (5.9)	
Coolant system air flow, m³/min (scfm)	283.0 (10000.0)	283.0 (10000.0)	
Total heat rejection, MJ/min (Btu/min)	11.3 (10700.0)	11.1 (10500.0)	
Maximum cooling air flow static restriction, kPa (in H ₂ O)	124.5 (0.5)	124.5 (0.5)	

Weights²

Unit dry weight kgs (lbs)	1157 (2550)
Unit wet weight kgs (lbs)	1213 (2675)

Notes:

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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.

Alternator data

Natural gas and propa three phase table ¹	ne	105 °C	105 °C	105 °C	125 °C	125 °C	125 °C	150 °C	150 °C	150 °C	
Feature code		B418	B415	B304	B417	B414	B303	B416	B413	B419	
Alternator data sheet		210	210	209	210	210	209	210	209	208	
Voltage ranges		110/190 thru 120/208 220/380 thru 240/416	120/208 thru 139/240 240/416 thru 277/480	347/600	110/190 thru 120/208 220/380 thru 240/416	120/208 thru 139/208 240/416 thru 277/480	347/600	110/190 thru 120/208 220/380 thru 240/416	120/208 thru 139/240 240/416 thru 277/480	347/600	
Surge kW		160	160	160	160	160	160	160	159	159	
Motor starting kVA (at	Shunt	563	563	516	563	563	516	563	516	422	
90% sustained voltage)	PMG	663	663	607	663	663	607	663	607	497	
Full load current amps at standby rating	120/208 522	127/220 493	139/240 452	220/380 286	240/416 261	277/480 226	347/600 181				

Natural gas and propar single phase table	ne	105 °C	105 °C	125 °C	125 °C	125 °C			
Feature code		B418	B415	B417	B414	B273			
Alternator data sheet		210	210	210	210	210			
Voltage ranges		120/240 ²	120/240 ²	120/240 ²	120/240 ²	120/240 ³			
Surge kW		157	157	157	157	160			
Motor starting kVA (at	Shunt	330	330	330	330	330			
90% sustained voltage)	PMG	385	385	385	385	385			
Full load current amps at	120/240	² <u>120/24</u>	<u>0</u> ³						

Full load current amps at	120/240 ²	120/240 ³
standby rating	413	625

Notes:

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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. Also see Note 3 below.

² The broad range alternators can supply single phase output up to 2/3 set rated 3-phase kW at 1.0 power factor.

³ The extended stack (full single phase output) and 4 lead alternators can supply single phase output up to full set rated 3-phase kW at 1.0 power factor.

Derating factors

Natural	436
naturai	gas

Standby	Engine power available up to 594 m (1950 ft) at ambient temperatures up to 40 °C (104 °F). Above 594 m (1950 ft) derate at 4% per 305 m (1000 ft), and 2% per 11 °C (1% per 10 °F) above 40 °C (104 °F).
Propane	
Standby	Engine power available up to 305 m (1000 ft) at ambient temperatures up to 25 °C (77 °F). Above 305 m (1000 ft) derate at 4% per 305 m (1000 ft), and 2% per 11 °C (1% per 10 °F) above 25 °C (77 °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.

Formulas for calculating full load currents:

Three phase output

Single phase output

kW x 1000 Voltage x 1.73 x 0.8 kW x SinglePhaseFactor x 1000

Voltage

Cummins Power Generation

1400 73rd Avenue N.E. Minneapolis, MN 55432 USA Phone: 763 574 5000 Fax: 763 574 5298

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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