Model: GGMB

KW rating: 25.0 natural gas standby

20.0 propane standby

Frequency: 60

Fuel type: Natural gas/propane

> Generator set data sheet

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Exhaust emission data sheet:	EDS-1068	
Exhaust emission compliance sheet:		
Sound performance data sheet:	MSP-1044	
Cooling performance data sheet:	MCP-161	
Prototype test summary data sheet:	PTS-270	
Standard set-mounted radiator cooling outline:	0500-4510	
Optional set-mounted radiator cooling outline:		
Optional heat exchanger cooling outline:		
Optional remote radiator cooling outline:		

ruei	Natural gas Standby		Prime				Propa Stand				Prime	е				
consumption	kW (k	VA)			kW (kVA)		kW (kVA)			kW (kVA)						
Ratings	25.0 (3	31.0)	98. 10		22.0 (2	28.0)	306. 10	8	25.0 (3	31.0)	506.	26	22.0 (28.0)	595	108
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	166.1	236.9	313.7	396.3	157.4	220.7	285.7	356.8	57.8	82.1	108.4	136.7	54.8	76.5	98.8	123.1
m³/hr	4.7	6.7	8.9	11.2	4.5	6.2	8.1	10.1	1.6	2.3	3.1	3.9	1.6	2.2	2.8	3.5

Engine	Natural gas Standby rating	Prime rating	Propane Standby rating	Prime rating					
Engine model	GM3.0 L								
Configuration	Cast iron, in-line 4 cyli	nder							
Aspiration	Naturally aspirated	Naturally aspirated							
Gross engine power output, kWm (bhp)	36.9 (49.5)	33.5 (45)	41 (55)	37.3 (50)					
BMEP at rated load, kPa (psi)	714 (103.5)	625 (90.6)	714 (103.5)	625 (90.6)					
Bore, mm (in)	101.6 (4.0)		*	•					
Stroke, mm (in)	91.4 (3.6)								
Rated speed, rpm	1800								
Piston speed, m/s (ft/min)	11.4 (2243)								
Compression ratio	10.5:1								
Lube oil capacity, L (qt)	4.3 (4.5)								
Overspeed limit, rpm	2250 ± 50								
Regenerative power, kW									

Fuel flow

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

Air	Natural gas Standby rating	Prime rating	Propane Standby rating	Prime rating
Combustion air, m³/min (scfm)	2.0 (72)	1.8 (62)	1.8 (63)	1.6 (55)
Maximum air cleaner restriction, kPa (in H ₂ O)	2.5 (10.0)			
Alternator cooling air, m ³ /min (scfm)	7.8 (275)			

Exhaust

Exhaust flow at rated load, m3/min (cfm)	6.0 (209)	5.2 (183)	5.3 (188)	4.7 (165)
Exhaust temperature, °C (°F)	569 (1056)	552 (1026)	584 (1083)	566 (1051)
Maximum back pressure, kPa (in H ₂ O)	7.5 (30.0)			

Standard set-mounted radiator cooling

Ambient design, °C (°F)				
Fan load, kW (HP)	1.1 (1.5)			
Coolant capacity (with radiator), L (US gal)	11.4 (3.0)	200	69	
Coolant system air flow, m³/min (cfm)				
Total heat rejection, MJ/min (Btu/min)				
Maximum cooling air flow static restriction, kPa (in H ₂ O)				

Optional set-mounted radiator cooling

Ambient design, °C (°F)		
Fan load, kWm (HP)		
Coolant capacity with radiator, L (US gal)		
Cooling system air flow, m³/min (scfm)		
Total heat rejection, MJ/min (Btu/min)		
Maximum cooling air flow static restriction, kPa (in H ₂ O)		

Optional remote radiator cooling

Set coolant capacity, L (US gal)		
Max flow rate @ max friction head, jacket water circuit, L/min (US gal/min)		
Heat rejected, jacket water circuit, MJ/min (Btu/min)		
Total heat radiated to room, MJ/min (Btu/min)		
Maximum friction head, jacket water circuit, kPa (psi)		
Maximum static head, jacket water circuit, m (ft)		
Maximum jacket water outlet temp, °C (°F)		

Weights²

Unit dry weight kgs (lbs)	440 (970)				
Unit wet weight kas (lbs)	455 (1004)				

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 three phas	e table	105 °C	105 °C	105 °C	125 °C	125 °C	125 °C			
Feature code		B415	B268	B304	B414	B267	B303			
Alternator data sheet		536	536	536	536	536	536			
Voltage ranges		120/208 thru 139/240 240/416 thru 277/480	120/208 thru 139/240 240/416 thru 277/480	347/600	120/208 thru 139/240 240/416 thru 277/480	120/208 thru 139/240 240/416 thru 277/480	347/600			
Surge kW		26	26	26	26	26	26			
Motor starting kVA (at 90% sustained voltage)	Shunt	92	92	92	92	92	92			
	PMG									
Full load current amps at standby rating	120/208 87	127/220 82	120/240 75	139/240 75	240/416 43	255/440 41	277/480 38	347/600 30		
Propane three phase to	able¹	105 °C	105 °C	105 °C	125 °C	125 °C	125 °C			
Feature code		B415	B268	B304	B414	B267	B303			
Alternator data sheet		536	536	536	536	536	536			
Voltage ranges		120/208 thru 139/240 240/416 thru 277/480	120/208 thru 139/240 240/416 thru 277/480	347/600	120/208 thru 139/240 240/416 thru 277/480	120/208 thru 139/240 240/416 thru 277/480	347/600			
Surge kW		26	26	26	26	26	26			
Motor starting kVA (at 90% sustained voltage)	Shunt	92	92	92	92	92	92			
Full load current amps at standby rating	120/208 87	127/220 82	120/240 75	139/240 75	240/416 43	<u>255/440</u> 41	277/480 38	347/600 30		
Natural gas single phas	se table	105 °C	105 °C	105 °C	125 °C	125 °C	125 °C			
Feature code		B274	B415	B268	B273	B414	B267			
Alternator data sheet number		536	536	536	536	536	536			
Voltage ranges		120/240 ³	120/240 ²	120/240 ³	120/240 ³	120/240 ²	120/240 ³			
Surge kW		26	26	26	26	26	26			
Motor starting kVA (at 90% sustained voltage)	Shunt	72	72	72	72	72	72			
	PMG									
Full load current amps at standby rating	120/240 ³ 69	120/240 104	3							
Propane single phase t	able	105 °C	105 °C	105 °C	125 °C	125 °C	125 °C			
Feature code		B274	B415	B268	B273	B414	B267	- 3		
	3	536	536	536	536	536	536		Î	
			120/240 ²	120/240 ³	120/240 ³	120/240 ²	120/240 ³			
number		120/240 ³	120/210	200 23 20 20					100	
number Voltage ranges		120/240° 26	26	26	26	26	26			
Alternator data sheet number Voltage ranges Surge kW Motor starting kVA (at 90% sustained voltage)	Shunt	T 12			26 72	26 72	26 72			

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.

^{a.} 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 gas

Standby/prime	Engine power available up to 457 m (1500 ft) at ambient temperatures up to 40 °C (104 °F). Above 457 m (1500 ft) derate at 4% per 305 m (1000 ft), and 2% per 10 °C (1.1% per 10 °F) above 40 °C (104 °F).
Propane	
Standby/prime	Engine power available up to 457 m (1500 ft) at ambient temperatures up to 40 °C (104 °F). Above 457 m (1500 ft) derate at 4% per 305 m (1000 ft), and 2% per 10 °C (1.1% per 10 °F) above 40 °C (104 °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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