

Power Solutions International 201 Mittel Drive

Wood Dale, IL 60191 630-350-9400

www.psiengines.com

Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D081NA	
EPA Engine Family	CPWRB8.10NGP	
Model/Fuel	8.1LNA LPG	8.1LNA NG
Displacement (Liter)	8.071L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	105.9	103.6
	g/KW-hr	g/KW-hr
BSCO	0.59	0.16
BSCO2	937.8	650.9
BSTHC	0.01	0.31
BSNMHC ⁷	NA	0.1
BSNOx	0.09	0.06
BSTHC+Nox	0.1	NA
BSNMHC+Nox	NA	0.15
BSFC (kg/kw-hr) ⁴	0.28	0.275

5 & 6		
D081L ^{5 &6} CPWRB8.10TNP		
8.1LT LPG 8.1LT NG 8.071L		
136.1 175.7		
g/KW-hr		
0.18		
662.75		
0.85		
0.03		
0.02		
0.85		
0.03		
0.25		

D111L ⁵		
CPWRB1		
11.1L LPG	11.1L NG	
11.0)51L	
154.9	226.0	
g/KW-hr	g/KW-hr	
0.33	0.35	
899	623	
0.09	2.98	
NA	0.34	
0.02	0.03	
0.11	NA	
NA	0.37	
0.30	0.26	

D146L ⁵		
CPWRB14.6NGP		
14.6L LPG	14.6L NG	
14.6	518L	
237.8	334.8	
g/KW-hr	g/KW-hr	
0.15	0.08	
952.04	647.93	
0.06	0.20	
NA	0.06	
0.04	0.10	
0.10	NA	
NA	0.16	
0.32	0.24	

D183L ^{5 & 6}		
CPWRB18.3NGP		
18.3L LPG	18.3L NG	
18.273L		
316.9	422.0	
g/KW-hr	g/KW-hr	
0.20	0.28	
777.32	591.9	
0.04	0.75	
NA	0.00	
0.06	0.04	
0.10	NA	
NA	0.04	
0.26	0.22	

D219L⁵			
CPWRB2	CPWRB21.9NGP		
21.9L LPG	21.9L NG		
21.9	927L		
351.9	484.6		
g/KW-hr	g/KW-hr		
0.34	0.13		
881.30	590.70		
0.05	0.43		
NA	0.01		
0.03	0.08		
0.08	NA		
NA	0.09		
0.27	0.22		

GRAMS PER HP-HR

	D081NA	
EPA Engine Family	CPWRB8.10NGP	
Model/Fuel	8.1LNA LPG	8.1LNA NG
Displacement (Cubic Inch)	492.5CID	
Rated Power (hp) @ 1800 RPM ^{1,2&3}	142	139
	g/hp-hr	g/hp-hr
BSCO	0.44	0.12
BSCO2	699.22	485.31
BSTHC	0.01	0.23
BSNMHC ⁷	N/A	0.07
BSNOx	0.07	0.04
BSTHC+Nox	0.07	N/A
BSNMHC+Nox	N/A	0.11
BSFC (kg/hp-hr) ⁴	0.21	0.21

D081L ^{5 &6}			
CPWRB	CPWRB8.10TNP		
8.1LT LPG	8.1LT NG		
492.	5CID		
183	236		
g/hp-hr	g/hp-hr		
0.39	0.13		
602.74	494.15		
0.07	0.63		
NA	0.02		
0.01	0.00		
0.08	NA		
NA	0.02		
0.20	0.19		

D111L ⁵		
CPWRB11.1NGP		
11.1L LPG	11.1L NG	
674.5CID		
208	303	
g/hp-hr	g/hp-hr	
0.25	0.26	
670.06	464.32	
0.07	2.22	
NA	0.25	
0.01	0.02	
0.08	NA	
NA	0.28	
0.22	0.19	

D146L ⁵			
CPWRB1	CPWRB14.6NGP		
14.6L LPG 14.6L NO			
892.	1CID		
319	449		
g/hp-hr	g/hp-hr		
0.11	0.06		
709.84	483.10		
0.04	0.15		
NA	0.04		
0.03	0.07		
0.07	NA		
NA	0.12		
0.24	0.18		

D183L ^{5 & 6}	
CPWRB1	L8.3NGP
18.3L LPG	18.3L NG
1115	.1CID
425	566
g/hp-hr	g/hp-hr
0.15	0.21
579.57	441.32
0.03	0.56
NA	0.00
0.04	0.03
0.07	NA
NA	0.03
0.19	0.16

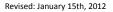
D2	D219L⁵		
CPWRB	CPWRB21.9NGP		
21.9L LPG	21.9L NG		
1338	1338.0CID		
472	650		
g/hp-hr	g/hp-hr		
0.25	0.10		
657.10	440.43		
0.04	0.32		
NA	0.00		
0.02	0.06		
0.06	NA		
NA	0.06		
0.20	0.16		

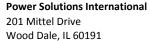
NOTES

¹ Rated power is based on ISO3046 and/or ISO 8528.

DOG1NA

- ² All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328 feet with no cooling fan or alternator losses using heating value for NG of 1015 BTU/SCF.
- ³ Production tolerances in engines and installed components can account for power variations of +/- 5%. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations.
- ⁴ Bsfc is based on 100% gross flywheel power rating and does not include fan or generator losses.
- ⁵ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 1048
- ⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 60
- ⁷ For NG, NMHC is reported in place of VOC for this report





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Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D081NA	
EPA Engine Family	CPWRB8.10NGP	
Model/Fuel	8.1LNA LPG 8.1LNA N	
Displacement (Liter)	8.071L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	105.9 103.6	
	g/KW-hr	g/KW-hr
BSCO	0.59	0.16
BSCO2	938	651
BSTHC	0.01	0.31
BSNMHC ⁷	NA	0.1
BSNOx	0.09	0.06
BSTHC+Nox	0.1	NA
BSNMHC+Nox	NA	0.15
BSFC (kg/kw-hr) ⁴	0.28	0.275

GRAMS PER HP-HR

	D081NA	
EPA Engine Family	CPWRB8.10NGP	
Model/Fuel	8.1LNA LPG	8.1LNA NG
Displacement (Cubic Inch)	492.5CID	
Rated Power (hp) @ 1800 RPM ^{1,2&3}	142	139
	g/hp-hr	g/hp-hr
BSCO	0.44	0.12
BSCO2	699	485
BSTHC	0.01	0.23
BSNMHC ⁷	NA	0.07
BSNOx	0.07	0.04
BSTHC+Nox	0.07	NA
BSNMHC+Nox	NA	0.11
BSFC (kg/hp-hr) ⁴	0.21	0.21

NOTES

- ¹ Rated power is based on ISO3046 and/or ISO 8528.
- ² All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328 feet with no cooling fan or alternator losses using heating value for NG of 1015 BTU/SCF.
- ³ Production tolerances in engines and installed components can account for power variations of +/- 5%. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations.

NGE 8.1L-NA

- ⁴ Bsfc is based on 100% gross flywheel power rating and does not include fan or generator losses.
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- ⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 60
- ⁷ For NG, NMHC is reported in place of VOC for this report



NGE 8.1L-CAC

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Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D081L ^{5 &6}	
EPA Engine Family	CPWRB8.10TNP	
Model/Fuel	8.1LT LPG	8.1LT NG
Displacement (Liter)	8.071L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	136	176
	g/KW-hr	g/KW-hr
BSCO	0.53	0.18
BSCO2	808	663
BSTHC	0.09	0.85
BSNMHC ⁷	NA	0.02
BSNOx	0.01	0.01
BSTHC+Nox	0.11	0.85
BSNMHC+Nox	NA	0.03
BSFC (kg/kw-hr) ⁴	0.27 0.25	

GRAMS PER HP-HR

	D081L ^{5 &6}	
EPA Engine Family	CPWRB8.10TNP	
Model/Fuel	8.1LT LPG	8.1LT NG
Displacement (Cubic Inch)	492.5CID	
Rated Power (hp) @ 2000 RPM ^{1,2&3}	³ 183 236	
	g/hp-hr	g/hp-hr
BSCO	0.39	0.13
BSCO2	603	494
BSTHC	0.07	0.63
BSNMHC ⁷	NA	0.02
BSNOx	0.01	0.00
BSTHC+Nox	0.08	NA
BSNMHC+Nox	NA	0.02
BSFC (kg/hp-hr) ⁴	0.20	0.19

NOTES

- ¹ Rated power is based on ISO3046 and/or ISO 8528.
- ² All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328 feet with no cooling fan or alternator losses using heating value for NG of 1015 BTU/SCF.
- 3 Production tolerances in engines and installed components can account for power variations of +/- 5%. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations.
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- ⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 60
- ⁷ For NG, NMHC is reported in place of VOC for this report



NGE 11.1L-CAC

Power Solutions Interna 201 Mittel Drive Wood Dale, IL 60191 630-350-9400

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Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D111L ⁵	
EPA Engine Family	CPWRB11.1NGP	
Model/Fuel	11.1L LPG	11.1L NG
Displacement (Liter)	11.051L	
Rated Power (kW) @ 2000 RPM ^{1,2&3}	155 226	
	g/KW-hr	g/KW-hr
BSCO	0.33	0.35
BSCO2	899	623
BSTHC	0.09	2.98
BSNMHC ⁷	NA	0.34
BSNOx	0.02	0.03
BSTHC+Nox	0.11	NA
BSNMHC+Nox	NA	0.37
BSFC (kg/kw-hr) ⁴	0.30	0.26

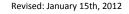
GRAMS PER HP-HR

	D111L ⁵	
EPA Engine Family	CPWRB11.1NGP	
Model/Fuel	11.1L LPG 11.1L N	
Displacement (Cubic Inch)	674.5CID	
Rated Power (hp) @ 2000 RPM ^{1,2&3}	³ 208 303	
	g/hp-hr	g/hp-hr
BSCO	0.25	0.26
BSCO2	670	464
BSTHC	0.07	2.22
BSNMHC ⁷	NA	0.25
BSNOx	0.01	0.02
BSTHC+Nox	0.08	NA
BSNMHC+Nox	NA	0.28
BSFC (kg/hp-hr) ⁴	0.22	0.19

NOTES

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- ⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 60

⁷ For NG, NMHC is reported in place of VOC for this report





NGE 14.6L-CAC

Power Solutions International

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Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D146L ⁵	
EPA Engine Family	CPWRB14.6NGP	
Model/Fuel	14.6L LPG	14.6L NG
Displacement (Liter)	14.618L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	238 335	
	g/KW-hr	g/KW-hr
BSCO	0.15	0.08
BSCO2	952	648
BSTHC	0.06	0.20
BSNMHC ⁷	NA	0.06
BSNOx	0.04	0.10
BSTHC+Nox	0.10	NA
BSNMHC+Nox	NA	0.16
BSFC (kg/kw-hr) ⁴	0.32 0.24	

GRAMS PER HP-HR

	D146L⁵	
EPA Engine Family	CPWRB14.6NGP	
Model/Fuel	14.6L LPG 14.6L N	
Displacement (Cubic Inch)	892.1CID	
Rated Power (hp) @ 1800 RPM ^{1,2&3}	³ 319 449	
	g/hp-hr	g/hp-hr
BSCO	0.11	0.06
BSCO2	710	483
BSTHC	0.04	0.15
BSNMHC ⁷	NA	0.05
BSNOx	0.03	0.08
BSTHC+Nox	0.07	NA
BSNMHC+Nox	NA	0.12
BSFC (kg/hp-hr) ⁴	0.52	0.40

NOTES

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- ⁷ For NG, NMHC is reported in place of VOC for this report

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NGE 18.3L-CAC

Power Solutions International 201 Mittel Drive Wood Dale, IL 60191 630-350-9400 www.psiengines.com

Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D183L ^{5 & 6}	
EPA Engine Family	CPWRB18.3NGP	
Model/Fuel	18.3L LPG	18.3L NG
Displacement (Liter)	18.273L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	316.9 422.0	
	g/KW-hr	g/KW-hr
BSCO	0.20	0.28
BSCO2	777	592
BSTHC	0.04	0.75
BSNMHC ⁷	NA	0.00
BSNOx	0.06	0.04
BSTHC+Nox	0.1	NA
BSNMHC+Nox	NA	0.04
BSFC (kg/kw-hr) ⁴	0.259	0.217

GRAMS PER HP-HR

	D183L ^{5 & 6}	
EPA Engine Family	CPWRB18.3NGP	
Model/Fuel	18.3L LPG 18.3L NO	
Displacement (Cubic Inch)	1115.1CID	
Rated Power (hp) @ 1800 RPM ^{1,2&3}	425 566	
	g/hp-hr	g/hp-hr
BSCO	0.15	0.21
BSCO2	580	441
BSTHC	0.03	0.56
BSNMHC ⁷	NA	0.00
BSNOx	0.04	0.03
BSTHC+Nox	0.07	NA
BSNMHC+Nox	NA	0.03
BSFC (kg/hp-hr) ⁴	0.19	0.16

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INTERNATIONAL

NGE 21.9L-CAC

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Power Solutions International

201 Mittel Drive

Wood Dale, IL 60191 630-350-9400

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Zero-Hour Non-Deteriorated Emissions for Permitting Customers

GRAMS PER KW-HR	D219L ⁵	
EPA Engine Family	CPWRB21.9NGP	
Model/Fuel	21.9L LPG	21.9L NG
Displacement (Liter)	21.927L	
Rated Power (kW) @ 1800 RPM ^{1,2&3}	352 485	
	g/KW-hr	g/KW-hr
BSCO	0.34	0.13
BSCO2	881	591
BSTHC	0.05	0.43
BSNMHC ⁷	NA	0.01
BSNOx	0.03	0.08
BSTHC+Nox	0.08	NA
BSNMHC+Nox	NA	0.09
BSFC (kg/kw-hr) ⁴	0.27 0.22	

GRAMS PER HP-HR

	D219L⁵	
EPA Engine Family	CPWRB21.9NGP	
Model/Fuel	21.9L LPG 21.9L NO	
Displacement (Cubic Inch)	1338CID	
Rated Power (hp) @ 1800 RPM ^{1,2&3}	472 650	
	g/hp-hr	g/hp-hr
BSCO	0.25	0.10
BSCO2	657	440
BSTHC	0.04	0.32
BSNMHC ⁷	NA	0.00
BSNOx	0.02	0.06
BSTHC+Nox	0.06	NA
BSNMHC+Nox	NA	0.06
BSFC (kg/hp-hr) ⁴	0.20	0.16

NOTES

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- ² All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328 feet with no cooling fan or alternator losses using heating value for NG of 1015 BTU/SCF.
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- ⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations and are measured in accordance with US EPA NSPS 40CFR Part 60

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