



**POWER SOLUTIONS  
INTERNATIONAL**

Revised: January 15th, 2012

**Power Solutions International**  
201 Mittel Drive  
Wood Dale, IL 60191  
630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

GRAMS PER KW-HR		D081NA		D081L <sup>5&amp;6</sup>		D111L <sup>5</sup>		D146L <sup>5</sup>		D183L <sup>5&amp;6</sup>		D219L <sup>5</sup>	
EPA Engine Family	Model/Fuel	CPWRB8.10NGP		CPWRB8.10TNP		CPWRB11.1NGP		CPWRB14.6NGP		CPWRB18.3NGP		CPWRB21.9NGP	
Displacement (Liter)		8.1LNA LPG	8.1LNA NG	8.1LT LPG	8.1LT NG	11.1L LPG	11.1L NG	14.6L LPG	14.6L NG	18.3L LPG	18.3L NG	21.9L LPG	21.9L NG
Rated Power (kW) @ 1800 RPM <sup>1,2&amp;3</sup>		8.071L		8.071L		11.051L		14.618L		18.273L		21.927L	
		g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr	g/KW-hr
BSCO		0.59	0.16	0.53	0.18	0.33	0.35	0.15	0.08	0.20	0.28	0.34	0.13
BSCO2		937.8	650.9	808.40	662.75	899	623	952.04	647.93	777.32	591.9	881.30	590.70
BSTHC		0.01	0.31	0.09	0.85	0.09	2.98	0.06	0.20	0.04	0.75	0.05	0.43
BSNMHC <sup>7</sup>		NA	0.1	NA	0.02	NA	0.34	NA	0.06	NA	0.00	NA	0.01
BSNOx		0.09	0.06	0.01	0.01	0.02	0.03	0.04	0.10	0.06	0.04	0.03	0.08
BSTHC+Nox		0.1	NA	0.11	0.85	0.11	NA	0.10	NA	0.10	NA	0.08	NA
BSNMHC+Nox		NA	0.15	NA	0.03	NA	0.37	NA	0.16	NA	0.04	NA	0.09
BSFC (kg/kw-hr) <sup>4</sup>		0.28	0.275	0.27	0.25	0.30	0.26	0.32	0.24	0.26	0.22	0.27	0.22

GRAMS PER HP-HR		D081NA		D081L <sup>5&amp;6</sup>		D111L <sup>5</sup>		D146L <sup>5</sup>		D183L <sup>5&amp;6</sup>		D219L <sup>5</sup>	
EPA Engine Family	Model/Fuel	CPWRB8.10NGP		CPWRB8.10TNP		CPWRB11.1NGP		CPWRB14.6NGP		CPWRB18.3NGP		CPWRB21.9NGP	
Displacement (Cubic Inch)		8.1LNA LPG	8.1LNA NG	8.1LT LPG	8.1LT NG	11.1L LPG	11.1L NG	14.6L LPG	14.6L NG	18.3L LPG	18.3L NG	21.9L LPG	21.9L NG
Rated Power (hp) @ 1800 RPM <sup>1,2&amp;3</sup>		492.5CID		492.5CID		674.5CID		892.1CID		1115.1CID		1338.0CID	
		g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr
BSCO		0.44	0.12	0.39	0.13	0.25	0.26	0.11	0.06	0.15	0.21	0.25	0.10
BSCO2		699.22	485.31	602.74	494.15	670.06	464.32	709.84	483.10	579.57	441.32	657.10	440.43
BSTHC		0.01	0.23	0.07	0.63	0.07	2.22	0.04	0.15	0.03	0.56	0.04	0.32
BSNMHC <sup>7</sup>		N/A	0.07	NA	0.02	NA	0.25	NA	0.04	NA	0.00	NA	0.00
BSNOx		0.07	0.04	0.01	0.00	0.01	0.02	0.03	0.07	0.04	0.03	0.02	0.06
BSTHC+Nox		0.07	N/A	0.08	NA	0.08	NA	0.07	NA	0.07	NA	0.06	NA
BSNMHC+Nox		N/A	0.11	NA	0.02	NA	0.28	NA	0.12	NA	0.03	NA	0.06
BSFC (kg/hp-hr) <sup>4</sup>		0.21	0.21	0.20	0.19	0.22	0.19	0.24	0.18	0.19	0.16	0.20	0.16

**NOTES**

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

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> Bsfsc is based on 100% gross flywheel power rating and does not include fan or generator losses.

<sup>5</sup> 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

<sup>6</sup> 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

<sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 8.1L-NA**

Revised: January 15th, 2012

**Power Solutions International**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

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

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

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> Bsc is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 8.1L-CAC**

**Power Solutions Inter**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

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

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

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> Bsfrc is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 11.1L-CAC**

**Power Solutions Intern:**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

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

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

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> Bsf is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 14.6L-CAC**

Revised: January 15th, 2012

**Power Solutions International**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

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

GRAMS PER HP-HR		D146L <sup>5</sup>	
		14.6L LPG	14.6L NG
EPA Engine Family	CPWRB14.6NGP		
Model/Fuel	14.6L LPG	14.6L NG	
Displacement (Cubic Inch)	892.1CID		
Rated Power (hp) @ 1800 RPM <sup>1,2&amp;3</sup>	319	449	
	g/hp-hr	g/hp-hr	
BSCO	0.11	0.06	
BSCO2	710	483	
BSTHC	0.04	0.15	
BSNMHC <sup>7</sup>	NA	0.05	
BSNOx	0.03	0.08	
BSTHC+Nox	0.07	NA	
BSNMHC+Nox	NA	0.12	
BSFC (kg/hp-hr) <sup>4</sup>	0.52	0.40	

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> BsfC is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 18.3L-CAC**

Revised: January 15th, 2012

**Power Solutions International**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

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

GRAMS PER HP-HR	D183L <sup>5 &amp; 6</sup>	
	CPWRB18.3NGP	
EPA Engine Family	18.3L LPG	18.3L NG
Model/Fuel	1115.1CID	
Displacement (Cubic Inch)	1115.1CID	
Rated Power (hp) @ 1800 RPM <sup>1,2&amp;3</sup>	425	566
	g/hp-hr	g/hp-hr
BSCO	0.15	0.21
BSCO2	580	441
BSTHC	0.03	0.56
BSNMHC <sup>7</sup>	NA	0.00
BSNOx	0.04	0.03
BSTHC+Nox	0.07	NA
BSNMHC+Nox	NA	0.03
BSFC (kg/hp-hr) <sup>4</sup>	0.19	0.16

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> Bsfcc is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report



**NGE 21.9L-CAC**

Revised: January 15th, 2012

**Power Solutions International**  
 201 Mittel Drive  
 Wood Dale, IL 60191  
 630-350-9400  
[www.psiengines.com](http://www.psiengines.com)

**Zero-Hour Non-Deteriorated Emissions for Permitting Customers**

**GRAMS PER KW-HR**

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

**GRAMS PER HP-HR**

	D219L <sup>5</sup>	
	21.9L LPG	21.9L NG
EPA Engine Family	CPWRB21.9NGP	
Model/Fuel	21.9L LPG	21.9L NG
Displacement (Cubic Inch)	1338CID	
Rated Power (hp) @ 1800 RPM <sup>1,2&amp;3</sup>	472	650
	g/hp-hr	g/hp-hr
BSCO	0.25	0.10
BSCO2	657	440
BSTHC	0.04	0.32
BSNMHC <sup>7</sup>	NA	0.00
BSNOx	0.02	0.06
BSTHC+Nox	0.06	NA
BSNMHC+Nox	NA	0.06
BSFC (kg/hp-hr) <sup>4</sup>	0.20	0.16

**NOTES**

- <sup>1</sup> Rated power is based on ISO3046 and/or ISO 8528.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> Bsfsc is based on 100% gross flywheel power rating and does not include fan or generator losses.
- <sup>5</sup> 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
- <sup>6</sup> 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
- <sup>7</sup> For NG, NMHC is reported in place of VOC for this report