POWER SOLUTIONS INTERNATIONAL

6.7L Naturally Aspirated Stationary

NON-EMERGENCY "PRIME"

Date:	2022-04-06
Rev:	D

		Units		**6.7L**			
		Std	**Metric**	**1500**		**1800**	
General Engine Data							
	Type	N/A		In-line 4 cycle			
	Number of cylinders	N/A		6			
	Aspiration	N/A		Naturally Aspirated			
	Bore	in	mm	4.1	105	4.1	105
	Stroke	in	mm	5.1	130	5.1	130
	Displacement	in^3	L	411.9	6.75	411.9	6.75
	Compression Ratio	N/A		9.75:1			
	RPM Range (Min-Max)	RPM		1500-1800			
	Rotation Viewed from Flywheel	N/A		Counter Clockwise			
	Firing Order	N/A		1-5-3-6-2-4			
	Dry Weight (long Block)	lb	kg	1267	575	1267	575
Gross Prime Power Rating[1,2,3] Per ISO 3046 at the Flywheel				**HP**	**KW**	**HP**	**KW**
	LP			97.89	73.00	116.67	87.00
	NG			92.53	69.00	107.28	80.00
Exhaust System							
	Type			Air Cooled Manifold			
	Non-Emergency Prime Rating Catalyst Configuration for US Certified Product			Single Substrate		Single Substrate	
	Maximum allowable Back pressure	in HG	kPa	3	10.2	3	10.2
Air Induction System							
	Maximum allowable Intake Air Restriction with Air Cleaner						
	Clean	inH2O	kPa	8	2	8	2
	Dirty	inH2O	kPa	14.9	3.7	14.9	3.7
	Combustion Air required (volume)	cfm	m^3/min	117.00	3.30	236.70	6.70
Cooling System							
	Coolant Capacity						
	Engine only	qts	L	8.4	8	8.4	8
	Engine and Radiator	qts	L	16.8	16	16.8	16
	Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	3383.7	14.21	4111.6	17.27
	Cracking Temperature	F	C	167	75	167	75
	Full Open Temperature	F	C	194	90	194	90
Lubrication System							
	Oil Specification			SAE 15W-40 Low Ash, API CD/CF or Higher			
	Maximum Allowable Oil Temperature	F	C	239	115	239	115
	Engine Oil Capacity						
	Min	Qts	L	14.8	14	14.8	14
	Max	Qts	L	28.5	27	28.5	27
Fuel System							
	Fuel Consumption @ Rated Load						
	NG	lb/hr	kg/hr	33.95	15.4	40.34	18.3
	LP	lb/hr	kg/hr	37.48	17	44.53	20.2
	Maximum EPR Rated Pressure	psi	kPa	1.0	6.9	1.0	6.9
	Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR)	inH2O	kPa	10.8	2.7	10.8	2.7
	Recommended Minimum Running pressure to EPR	inH2O	kPa	6.8	1.7	6.8	1.7
	Minimum NG Supply Pipe Size[4]			1-1/4" NPT			
	Minimum LPG Supply Pipe Size[4]			1/4" NPT			

[1] Standby and overload ratings based on ISO 3046. See PSI technical standard 3630000A for additional duty cycle and engine rating information

[2] All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328feet 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] The preceeding pipe sizes are only suggestions and piping sizes may vary with temperature, pressure, distance from supply and application of local codes. Gas must be available at adequate volume and pressure for engine at the EPR.

For information not listed in this document, please contact you PSI sales representative

6.7LNA Fuel Consumption Data
Prime

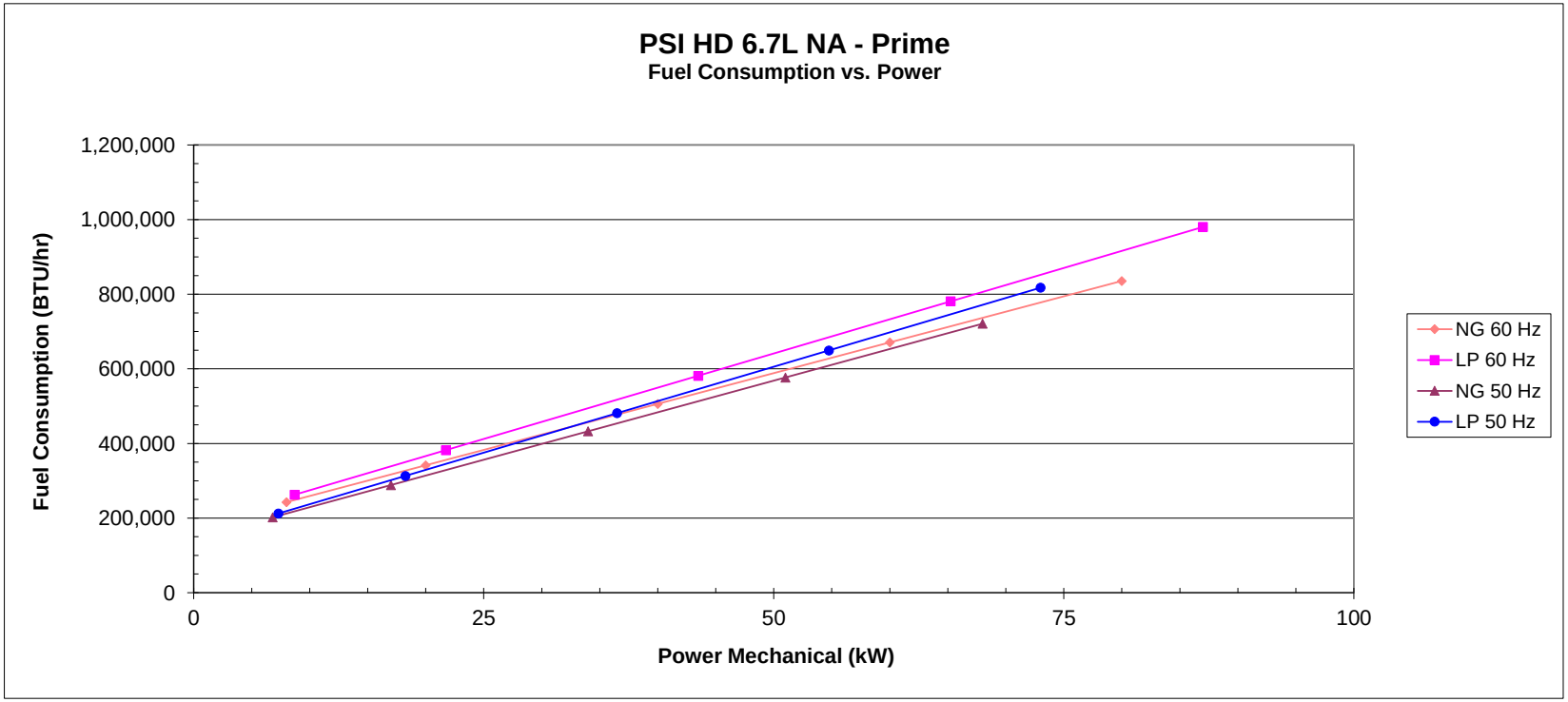
NG 60 Hz				
Power at Flywheel (kw)	kg/hr	m3/hr	ft3/hr	BTU/hr
80	18.3	25.5	901	835,517
60	14.7	20.5	724	670,858
40	11.1	15.5	546	506,198
20	7.5	10.4	368	341,538
8	5.3	7.4	262	242,742

NG 50 Hz				
Power at Flywheel (kw)	kg/hr	m3/hr	ft3/hr	BTU/hr
68	15.8	22.0	778	720,989
51	12.6	17.6	622	576,835
34	9.5	13.2	467	432,682
17	6.3	8.8	311	288,528
7	4.4	6.2	218	202,036

Gas Properties		
	Density	Heat content
LP	0.51 kg/L	91330 BTU/gal
NG	0.717 kg/m3	927 BTU/ft3

LP 60 Hz				
Power at Flywheel (kw)	kg/hr	L/hr	gal/hr	BTU/hr
87	20.7	40.7	10.7	980,283
65	16.5	32.4	8.6	780,941
44	12.3	24.1	6.4	581,600
22	8.1	15.9	4.2	382,258
9	5.6	10.9	2.9	262,653

LP 50 Hz				
Power at Flywheel (kw)	kg/hr	L/hr	gal/hr	BTU/hr
73	17.3	33.9	9.0	817,537
55	13.7	26.9	7.1	649,412
37	10.2	20.0	5.3	481,287
18	6.6	13.0	3.4	313,162
7	4.5	8.8	2.3	212,287



Technical data based on ISO 3046-1 standards of 77°F (25°C), barometric pressure of 14.5Psia (100kPa) and 30% relative humidity. Production tolerances in engines and installed components can account for power variations of ± 5%.

2022-07-08