



4.3L Naturally Aspirated Stationary **EMERGENCY STANDBY**



Date:	10/28/2014		
Rev:	B		
Units			
4.3L			
Std	Metric	1500	1800

General Engine Data							
Type	N/A		GM V-Type 4 Cycle				
Number of cylinders	N/A		6				
Aspiration	N/A		Naturally Aspirated				
Bore	in	mm	4	101.6	4	101.6	
Stroke	in	mm	3.48	88	3.48	88	
Displacement	in ³	L	262	4.3	262	4.3	
Compression Ratio	N/A		9.4:1				
RPM Range (Min-Max)	RPM		1500-1800				
Rotation Viewed from Flywheel	N/A		Counter Clockwise				
Firing Order	N/A		1-6-5-4-3-2				
Dry Weight (long Block)	lb	kg	430	195	430	195	
Gross Standby Power Rating ^{1,2,3} Per ISO 3046 at the Flywheel							
			HP	KW	HP	KW	
LP			59.49	44.36	71.39	53.24	
Standby Rating Average Load Factor - LP			48.78	36.37	58.53	43.65	
NG			55.38	41.29	66.45	49.55	
Standby Rating Average Load Factor - NG			45.41	33.85	54.48	40.63	
Please ask a PSI sales representative for information regarding prime power operation							
Exhaust System							
Type	Air Cooled Manifold						
Emergency Standby Rating Catalyst Configuration for US Certified Product			No Catalyst		No Catalyst		
Maximum allowable Back pressure	in HG	kPa	3	10.2	3	10.2	
Exhaust Volumetric Flow at Rated Power @ 1350 F	cfm	m ³ /min	301.6	8.54	361.9	10.25	
Air Induction System							
Maximum allowable Intake Air Restriction with Air Cleaner							
Clean	inH2O	kPa	3	1.49	3	1.49	
Dirty	inH2O	kPa	13	3.24	13	3.24	
Combustion Air required (volume)	cfm	m ³ /min	93.40	2.64	112.10	3.17	
Cooling System							
Coolant Capacity							
Engine only	qts	L	7.75	7.3	7.75	7.3	
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	1850	7.78	2220	9.33	
Cracking Temperature	F	C	160	71	160	71	
Full Open Temperature	F	C	185	85	185	85	
Lubrication System							
Oil Specification	SAE 5W-30 API Rating of SM or Newer						
Maximum Allowable Oil Temperature	F	C	250	121	250	121	
Engine Oil Capacity							
Min	Qts	L	4.5	4.25	4.5	4.25	
Max	Qts	L	4.5	4.25	4.5	4.25	
Fuel System							
Fuel Consumption @ Rated Load							
NG	lb/hr	kg/hr	20.5	9.29	24.7	11.2	
LP	lb/hr	kg/hr	22.9	10.38	27.5	12.47	
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	11.0	2.7	11.0	2.7	
Recommended Minimum Running pressure to EPR	inH2O	kPa	7.0	1.7	7.0	1.7	
Minimum NG Supply Pipe Size	1-1/4" NPT						
Minimum LPG Supply Pipe Size ⁴	3/4"						

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 preceding 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



**POWER SOLUTIONS
INTERNATIONAL**

4.3L Naturally Aspirated Stationary

NON-EMERGENCY "PRIME"



Date:	10/28/2014
Rev:	C

Units		4.3L			
Std	Metric	1500		1800	

General Engine Data						
Type	N/A		GM V-Type 4 Cycle			
Number of cylinders	N/A		6			
Aspiration	N/A		Naturally Aspirated			
Bore	in	mm	4	101.6	4	101.6
Stroke	in	mm	3.48	88	3.48	88
Displacement	in ³	L	262	4.3	262	4.3
Compression Ratio	N/A		9.4:1			
RPM Range (Min-Max)	RPM		1500-1800			
Rotation Viewed from Flywheel	N/A		Counter Clockwise			
Firing Order	N/A		1-6-5-4-3-2			
Dry Weight (long Block)	lb	kg	430	195	430	195
Gross Prime Power Rating ^{1,2,3} Per ISO 3046 at the Flywheel						
			HP	KW	HP	KW
LP			53.54	39.93	64.25	47.91
Prime Rating Average Load Factor - LP			40.15	29.94	48.18	35.93
NG			49.84	37.16	59.81	44.60
Prime Rating Average Load Factor - NG			37.38	27.87	44.85	33.45
Please ask a PSI sales representative for information regarding standby power operation						
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
Exhaust Volumetric Flow at Rated Power @ 1350 F	cfm	m ³ /min	301.6	8.54	361.9	10.25
Air Induction System						
Maximum allowable Intake Air Restriction with Air Cleaner						
Clean	inH2O	kPa	3	1.49	3	1.49
Dirty	inH2O	kPa	13	3.24	13	3.24
Combustion Air required (volume)	cfm	m ³ /min	93.40	2.64	112.10	3.17
Cooling System						
Coolant Capacity						
Engine only	qts	L	7.75	7.3	7.75	7.3
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	1850	7.78	2220	9.33
Cracking Temperature	F	C	160	71	160	71
Full Open Temperature	F	C	185	85	185	85
Lubrication System						
Oil Specification	SAE 5W-30 API Rating of SM or Newer					
Maximum Allowable Oil Temperature	F	C	250	121	250	121
Engine Oil Capacity						
Min	Qts	L	4.5	4.25	4.5	4.25
Max	Qts	L	4.5	4.25	4.5	4.25
Fuel System						
Fuel Consumption @ Rated Load						
NG	lb/hr	kg/hr	20.5	9.29	24.7	11.2
LP	lb/hr	kg/hr	22.9	10.38	27.5	12.47
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Recommended Minimum Running pressure to EPR	inH2O	kPa	7.0	1.7	7.0	1.7
Minimum NG Supply Pipe Size	1-1/4" NPT					
Minimum LPG Supply Pipe Size ⁴	3/4"					

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201 Mittel Dr. Wood Dale, IL 60191
(630) 350-9400 Tel. • (630) 350-9900 Fax

PSI Technical Standard 36300000A- Engine Rating Guidelines

Emergency Standby Power Rating: Applicable for supplying emergency power for the duration of utility power outage. There is no overload capability for the emergency standby rating. Any use of the generator above the emergency standby rating is prohibited. Any unit operating in parallel with a public utility is not considered emergency standby. Emergency standby engine is applicable to a variable load with a maximum average load factor of 82% and 200 hours of operation per year. Emergency standby rating should only be applied in emergency power outages.

Prime Power Rating: Applicable for supplying electrical power in lieu of commercially purchased power or providing guaranteed standby power. The prime power rating is applicable for variable loads with limited number of operating hours per year. The average power output shall not exceed 75% of the prime power rating. The total time at 100% Prime power shall not exceed 500 hours per year. A 110% overload rating is available one hour in every twelve hours with the total hours at 110% not to exceed 25 hours per year. Maximum number of hours per year is 2500.

Continuous Power Rating: The continuous power rating is applicable for variable loads with unlimited number of operating hours per year. The power output shall not exceed 75% of the prime power rating. There is no overload capability.