

2.4L Naturally Aspirated Stationary

Date: 9/30/2016 **Rev:** A



3/4"

EMERGENCY "STANDBY"	itev.						
	U	Units		2.4L			
	Std	Metric	150	0	180	00	
neral Engine Data							
Туре		N/A		Inline 4	1 Cylinder		
Number of cylinders		N/A		4			
Aspiration		N/A		Naturally Aspirated			
Bore	in	mm	3.4	86.5	3.4	86.5	
Stroke	in	mm	3.93	100	3.93	100	
Displacement	in^3	L	143.5	2.4	143.5	2.4	
Compression Ratio	N/A	N/A		9.5:1			
RPM Range (Min-Max)		RPM		1500-1800			
Rotation Viewed from Flywheel		N/A		Counter Clockwise			
Firing Order		N/A		1-3-4-2			
Dry Weight (long Block)		LBS		260			
ss Standby Power Rating ^{1,2,3} Per ISO 3046 at the Flywheel			HP	kWm	HP	kWi	
LPG			38.38	28.62	46.52	34.6	
			00.00				
NG			34.79	25.95	42.81	31.9	
Please ask a PSI sales representative for information re	egarding prim	ne power or	eration				
aust System	- 3	- рологор					
Туре				Air Cool	ed Manifold	d	
Emergency Standby Rating Catalyst Configuration for US Certified Product				No Catalyst No Cat			
Maximum allowable Back pressure	in HG	kPa	3	10.2	3	10	
Exhaust Volumetric Flow at Rated Power @ 1350 F	cfm	m^3/min	208.90	5.9	248.22	7.	
nduction System				-			
Maximum allowable Intake Air Restriction with Air Cleaner							
Clean	inH2O	kPa	3	1.49	3	1.4	
Dirty	inH2O	kPa	13	3.24	13	3.2	
Combustion Air required (volume)	cfm	m^3/min	62.29	18.0	74.74	21	
ling System	9	0,	02.20	10.0	7 117 1		
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	1330	5.59	1520	6.3	
Cracking Temperature	F	С	160	71	160	71	
Full Open Temperature	F	С	185	85	185	85	
ication System							
Oil Specification			SAE 5W-3	30 API R	ating of SM	1 or Ne	
Maximum Allowable Oil Temperature	F	С	250	121	250	12	
Engine Oil Capacity			200	121	200	1.2	
Min	Qts	L	4.5	4.25	4.5	4.2	
Max	Qts	L	N/A	N/A	N/A	N/	
System	Qis		IN/A	IN/A	IN//A	IN/	
Fuel Consumption @ Rated Load			l				
NG	lb/hp-hr	kg/hr	0.361	N/A	0.359	N	
LPG		·	0.361	N/A	0.359	N/	
	lb/hp-hr	kg/hr	1	+ + +	1.0	-	
Maximum EPR Rated Pressure	psi	kPa	1.0	6.9		6.	
Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR)	inH2O	kPa	11.0	2.7	11.0	2.	
Recommended Minimum Running pressure to EPR	inH2O	kPa	7.0	1.7	7.0	1.	
Minimum NG Supply Pipe Size ⁴			1-1/4" NPT				

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

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

Minimum LPG Supply Pipe Size4

² All ratings are gross flywheel horsepower corrected to 77F 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.

⁴The 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.



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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.

<u>Prime Power Rating:</u> 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.