PSI 4.3L (4X) EMERGENCY STANDBY	8/29/2016 A nits	4.3L					
	Std	Metric	15	600	18	300	
General Engine Data							
Туре		N/A		V-Type	e 4 Cycle		
Number of cylinders		N/A	6 Naturally Aspirated				
Aspiration Bore		N/A					
Stroke	in in	mm	3.48	88	4 3.48	101.6 88	
Displacement	in^3	mm L	262	4.3	262	4.3	
Compression Ratio	N/A	L	202		8:1	4.3	
RPM Range (Min-Max)		RPM		1500-1800			
Rotation Viewed from Flywheel		V/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 <sup>1,2,3</sup> Per ISO 3046 at the Flywheel			HP	KW	HP	KW	
			68.04	50.74	82.16	61.27	
Standby Rating Average Load Factor - LP			61.04	45.52	76.08	56.73	
NG			64.69	48.24	78.02	58.18	
Standby Rating Average Load Factor - NG			59.22	44.16	70.16	52.32	
Please ask a PSI sales representative for information	n regarding p	rime power	operation	-			
Exhaust System							
Туре				Air Coole	d 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	2050	8.61	2300	9.66	
Cracking Temperature	F	C	160	71	160	71	
Full Open Temperature	F	С	185	85	185	85	
Lubrication System					tine of CM	an Mauran	
Oil Specification	-	<u> </u>		1	ting of SM	1	
Maximum Allowable Oil Temperature	F	С	250	121	250	121	
Engine Oil Capacity Min	Qts	1	4.5	4.25	4.5	4.25	
Max	Qts	L	4.5 4.5	4.25	4.5	4.25	
Fuel System	QIS		ч.0	4.20	4.0	4.20	
Fuel Consumption @ Rated Load							
r dei esticampion e natod Eoda	1		N/A	N/A	N/A	N/A	
NG	lh/hr	ka/hr				19/75	
NG LP	lb/hr lb/hr	kg/hr			28.03	13 12	
LP	lb/hr	kg/hr	24.29	11.02	28.93 1.0	13.12 6.9	
LP Maximum EPR Rated Pressure	lb/hr psi	kg/hr kPa	24.29 1.0	11.02 6.9	1.0	6.9	
LP Maximum EPR Rated Pressure Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR)	lb/hr psi inH2O	kg/hr kPa kPa	24.29 1.0 11.0	11.02 6.9 2.7	1.0 11.0	6.9 2.7	
LP Maximum EPR Rated Pressure	lb/hr psi	kg/hr kPa	24.29 1.0	11.02 6.9 2.7 1.7	1.0	6.9	

<sup>1</sup> Standby and overload ratings based on ISO 3046. See PSI technical standard 3630000A for additional duty cycle and engine rating information <sup>2</sup> 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.

<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> 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

NON-EMERGENCY "PRIME"	Rev: Un	1/16/2017 A its	4.3L					
	Std	Metric	15	00	18	00		
General Engine Data								
Туре		/A	V-Type 4 Cycle					
Number of cylinders		/A	6					
Aspiration	N/A		Naturally Aspirated					
	in	mm	4	101.6	4	101.6		
	in	mm	3.48	88	3.48	88		
	in^3	L	262	4.3	262	4.3		
	N/A			9.8				
RPM Range (Min-Max)		PM	1500-1800					
Rotation Viewed from Flywheel		/A /A	Counter Clockwise 1-6-5-4-3-2					
Firing Order			420			105		
Dry Weight (long Block) Gross Prime Power Rating <sup>1,2,3</sup> Per ISO 3046 at the Flywheel	lb	kg	430 HP	195 KW	430 HP	195 KW		
LP			61.24	45.68	73.94	55.16		
Prime Rating Average Load Factor - LP			45.93	34.26	55.46	41.37		
NG			43.33 58.22	43.43	70.22	52.38		
Prime Rating Average Load Factor - NG			43.67	32.57	52.66	39.29		
Please ask a PSI sales representative for information regard	ding sta	ndhy nower			J2.00	00.23		
Exhaust System	ang ota		operation					
Type				Air Cooleo	d Manifold			
Non-Emergency Prime Rating Catalyst Configuration for US Certified Product			Single Substrate Single Substrate			ubstrate		
	n HG	kPa	3	10.2	3	10.2		
	cfm	m^3/min	301.6	8.54	361.9	10.25		
Air Induction System								
Maximum allowable Intake Air Restriction with Air Cleaner								
Clean in	nH2O	kPa	3	1.49	3	1.49		
Dirty in	nH2O	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								
	qts	L	7.75	7.3	7.75	7.3		
Heat rejected to Cooling water at rated Load btt	tu/min	kcal/sec	2050	8.61	2300	9.66		
Cracking Temperature	F	С	160	71	160	71		
Full Open Temperature	F	С	185	85	185	85		
Lubrication System								
Oil Specification					ting of SM c			
Maximum Allowable Oil Temperature	F	С	250	121	250	121		
Engine Oil Capacity								
	Qts	L	4.5	4.25	4.5	4.25		
	Qts	L	4.5	4.25	4.5	4.25		
Fuel System								
Fuel Consumption @ Rated Load	lb/br	ka/hr	NI/A	NI/A	N1/A	NI/A		
	lb/hr	kg/hr	N/A	N/A	N/A	N/A		
	lb/hr	kg/hr	N/A	N/A	N/A 1.0	N/A		
	psi nH2O	kPa kPa	1.0 11.0	6.9 2.7	1.0 11.0	6.9 2.7		
	nH2O nH2O	kPa kPa	7.0	1.7	7.0	1.7		
Minimum NG Supply Pipe Size	11120	кгä	1.0			1.7		
Minimum LPG Supply Pipe Size <sup>4</sup>			1-1/4" NPT 3/4"					

<sup>1</sup> Standby and overload ratings based on ISO 3046. See PSI technical standard 3630000A for additional duty cycle and engine rating information <sup>2</sup> 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.

<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> 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.

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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.

**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.

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