EMERGENCY STANDBY Std I General Engine Data Type N/A	Metric		Date: 8/29/2016 Rev: A Units 4.3L				
		15		18	00		
Type N/A							
1.171		V-Type 4 Cycle					
Number of cylinders N/A		6					
Aspiration N/A		Naturally Aspirated					
	mm	4	101.6	4	101.6		
	mm	3.48	88	3.48	88		
Displacement in^3	L	262	4.3	262	4.3		
Compression Ratio N/A				8:1			
RPM Range (Min-Max) RPM		1500-1800					
Rotation Viewed from Flywheel N/A		Counter Clockwise					
Firing Order N/A	lum.	400		-4-3-2	405		
Dry Weight (long Block) Ib	kg	430	195	430 HP	195		
Gross Standby Power Rating 1,2,3 Per ISO 3046 at the Flywheel		HP	KW		KW		
LPG		68.04	50.74	82.16	61.27		
		04.00	40.04	70.00	50.40		
NG		64.69	48.24	78.02	58.18		
Please ask a PSI sales representative for information regarding prime		noration	<u> </u>	<u> </u>			
Exhaust System	- power of	Jeration					
Type			Air Cooled	Manifold			
Emergency Standby Rating Catalyst Configuration for US Certified Product		No Catalyst No Catalyst			tel et		
Maximum allowable Back pressure in HG	kPa	3	10.2	3	10.2		
	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	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		
, 5	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		SAE 5W-30 API Rating of SM or Newer					
Maximum Allowable Oil Temperature F	С	250	121	250	121		
Engine Oil Capacity		- 1 -	4.05	1.45	4.05		
Min Qts Qts	L	4.5 4.5	4.25 4.25	4.5 4.5	4.25 4.25		
	L.	4.3	4.20	4.0	4.20		
Fuel System							
Fuel System			N/A	N/A	N/A		
Fuel Consumption @ Rated Load	ka/hr	IN/A					
Fuel Consumption @ Rated Load NG lb/hr	kg/hr ka/hr	N/A 24.29		28.93	13.12		
Fuel Consumption @ Rated Load Ib/hr NG Ib/hr LPG Ib/hr	kg/hr	24.29	11.02	28.93 1.0	13.12 6.9		
Fuel Consumption @ Rated Load NG lb/hr LPG lb/hr Maximum EPR Rated Pressure psi	kg/hr kPa	24.29 1.0	11.02 6.9	1.0	6.9		
Fuel Consumption @ Rated Load Ib/hr NG Ib/hr LPG Ib/hr	kg/hr	24.29	11.02				
Fuel Consumption @ Rated Load Ib/hr NG Ib/hr LPG Ib/hr Maximum EPR Rated Pressure psi Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR) inH2O	kg/hr kPa kPa	24.29 1.0 11.0	11.02 6.9 2.7 1.7	1.0 11.0	6.9 2.7		

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

POWER SOLUTIONS INTERNATIONAL PSI 4.3L (4X) NON-EMERGENCY "PRIME"	Date: Rev: U Std	Rev: A Units 4.3L						
	510	Metric	15	00	18	00		
General Engine Data		N/A	V Turne A Quele					
Type Number of cylinders			V-Type 4 Cycle 6					
Aspiration		N/A N/A	Naturally Aspirated					
Bore	in	N/A mm	4	101.6	Aspirated 4	101.6		
Stroke	in	mm	4 3.48	88	3.48	88		
Displacement	in^3	L	262	4.3	262	4.3		
Compression Ratio	N/A	L	202	4.3	-	4.3		
RPM Range (Min-Max)		1						
Rotation Viewed from Flywheel	R	PM	1500-1800					
Firing Order		N/A	Counter Clockwise					
Dry Weight (long Block)	lb	N/A kg	430	<u>1-6-5</u> 195	- <u>4-3-2</u> 430	195		
	ID.	ĸġ	HP	KW	HP	KW		
Gross Prime Power Rating ^{1,2,3} Per ISO 3046 at the Flywheel			61.24					
LPG			01.24	45.68	73.94	55.16		
			=0.00	10.10	70.00	50.00		
NG			58.22	43.43	70.22	52.38		
Please ask a PSI sales representative for information reg	garding sta	ndby power	operation					
Exhaust System								
Туре			Air Cooled Manifold					
Non-Emergency Prime Rating Catalyst Configuration for US Certified Product						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	i=1100	kPa	3	4.40	0	4.40		
Clean	inH2O		-	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	ata		7.75	7.3	7.75	7.3		
Engine only Heat rejected to Cooling water at rated Load	qts btu/min	L kcal/sec	2050	7.3 8.61	2300	9.66		
Cracking Temperature	F	C C	2050	71	2300	9.66		
Full Open Temperature	F	C	185	85	185	85		
Lubrication System	F	C	165	00	160	00		
Oil Specification			SAE 5W-30 API Rating of SM or Newer					
Maximum Allowable Oil Temperature	F	С	250	-30 API Ra 121	250	121		
Engine Oil Capacity	F	C	200	121	230	121		
Min	Qts	L	4.5	4.25	4.5	4.25		
Min	Qts	L	4.5 4.5	4.25	4.5	4.25		
	QIS		ч.Ј	4.20	ч.J	4.20		
Fuel System								
NG	lb/hr	kg/hr	N/A	N/A	N/A	N/A		
		-						
LPG	lb/hr	kg/hr	N/A	N/A	N/A	N/A		
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 Minimum LPG Supply Pipe Size ⁴		1-1/4" NPT						
winning LPG Supply Fipe Size	1	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.

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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.