PSP Power Solutions INTERNATIONAL								
8 81 Naturally Asnirated Stationary	Date:	10/28/2014		τ.				
0.01 matarany Aspiratoa otacionary	Rev:	С						
EMERGENCY "STANDRY"	Units		8.8L NA					
	Std	Metric	15	00 1800		00		
General Engine Data								
Туре	N	I/A	PSI V-Type 4 Cycle					
Number of cylinders	N	I/A	8					
Aspiration	N/A		Naturally Aspirated					
Bore	in	mm	4.35	110.5	4.35	110.5		
Stroke	in	mm	4.5	114.3	4.5	114.3		
Displacement	in^3	L	535	8.8	535	8.8		
Compression Ratio	N/A		10.1:1					
RPM Range (Min-Max)	R	RPM1500-1800						
Rotation Viewed from Flywheel	N	I/A	Counter Clockwise					
Firing Order	N	I/A	1-8-7-2-6-5-4-3					
Dry Weight (long Block)	lb	kg	730	307	730	307		
Gross Standby Power Rating ^{1,2,3} Per ISO-3046 at the Flywheel			HP	KW	HP	KW		
LPG			154.17	114.96	185.39	138.25		
			111	- 16-2-4C	1.0			
NG			135.60	101.11	162.72	121.34		
			22.00	A	-M.D.C.	+01V		
Please ask a PSI sales representative for inform	nation regardin	ng prime powe	r operation					
Exhaust System	dia Conte-			57 DI 74				
Туре			Air Cooled Manifold					
Emergency Standby Rating Catalyst Configuration for US Certified Product			Dual St	ubstrate	Dual St	ubstrate		
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	662.4	18.76	803.9	22.76		
Air Induction System								
Maximum allowable Intake Air Restriction with Air Cleaner	1	1 15		1				
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	205.1	5.81	248.9	7.05		
Cooling System				19-17-1 Aug				
Coolant Capacity		1						
Engine only	qts		14.5	13.7	14.5	13.7		
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	2466	10.36	4184	17.58		
Cracking Temperature		C	160	/1	160	/1		
Full Open Temperature	F		185	85	185	85		
Lubrication System								
			SAE C	000-30 API Ra		Newei		
	F		250	121	250	121		
	010	1 . 1	0	7.67	0	7.67		
			0	7.57	0	7.57		
	QIS		0	1.57	- °	1.51		
Fuel System		and the second second						
	h/hr	ko/br	10.9	22.59	60	28.12		
		kg/lii	52.8	22.30	65.5	20.12		
LPG			52.0	23.94	10	29./1		
Decomposed of Maximum Purpling process to Electronic Process by (EPP)	psi in 100	KPa kDa	11.0	0.9	11.0	0.9		
Recommended Minimum Running pressure to Electronic Pressure Regulator (EPR)		kPa kDa	7.0	1.7	7.0	1.7		
Minimum NC Supply Disp Size ⁴								
Minimum NG Supply Pipe Size		1-1/4" NP1						
Initiation LPG Supply Pipe 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.

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

PSI Power Solutions INTERNATIONAL 8.8L Naturally Aspirated Stationary	Date: Rev:	Date: 10/28/2014 Rev: C Units 8.8L NA						
NON-EMERGENCY "PRIME"	Std	Metric	15	100		1800		
General Engine Data								
Туре	N	N/A PSI V-Type 4 Cycle						
Number of cylinders	N	J/A		8				
Aspiration	N	I/A	Naturally Aspirated					
Bore	in	mm	4.35	110.5	4.35	110.5		
Stroke	in	mm	4.5	114.3	4.5	114.3		
Displacement	in^3	L	535	8.8	535	8.8		
Compression Ratio	N/A		10.1:1					
RPM Range (Min-Max)	R	PM	1500-1800					
Rotation Viewed from Flywheel	N	J/A	Counter Clockwise					
Firing Order	N	J/A		1-8-7-2	-6-5-4-3			
Dry Weight (long Block)	lb	kg	730	307	730	307		
Gross Prime Power Rating ^{12,3} Per ISO 3046 at the Flywheel		evel or required	HP	KW	HP	KW		
LPG			138.75	103.47	166.85	124.42		
Contraction of the second s			1.1	100	0.00			
NG			122.04	91.01	146.44	109.20		
A tone to the second					1000-00			
Please ask a PSI sales representative for inform	nation regarding	g standby pov	ver operation	1		100000000000000000000000000000000000000		
Exhaust System						and the second		
Туре			Air Cooled Manifold					
Non-Emergency Prime Rating Catalyst Configuration for US Certified Product			Dual Si	ubstrate	Dual	Substrate		
Maximum allowable Back pressure	in HG	kPa	3	10.2	3	10.2		
Exhaust Volumetric Flow at Rated Power @ 1350 F	cim	m ⁴ 3/min	662.4	18.76	803.9	22.76		
Air Induction System			100		-	and the second sec		
	inH2O	L kDo	2	1 40	2	1 1 40		
	inH2O	kPa kPa	13	3.24	12	1.49		
Dilly Combustion Air required (volume)	ofm	m/3/min	205.1	5.81	248.9	7.05		
Combastion Air required (volume)	Cim	III S/IIIII	200.1	5.01	240.5	1.00		
Coolant Canacity		and the second second						
	ots	T L	14.5	13.7	14.5	13.7		
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	2466	10.36	4184	17.58		
Cracking Temperature	F	C	160	71	160	71		
Full Open Temperature	F	C	185	85	185	85		
Lubrication System		The second second	10.00		1000			
Oil Specification		SAE 5W-30 API Rating of SM or Newer				or Newer		
Maximum Allowable Oil Temperature	F	C	250	121	250	121		
Engine Oil Capacity						-		
Min	Qts	L	8	7.57	8	7.57		
Max	Qts	L	8	7.57	8	7.57		
Fuel System				Sec. Land				
Fuel Consumption @ Rated Load								
NG	lb/hr	kg/hr	49.8	22.58	62	28.12		
LPG	lb/hr	kg/hr	52.8	23.94	65.5	29.71		
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 ⁴		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

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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.