



1-1/4" NPT

3/4"

| 5.7L Naturally Aspirated Stationary | | Date: 10/28/2014 Rev: C | | | | | |
|--|--------------------|-------------------------|---------------------|-------------------|---------------|--------------|--|
| | | Units | | 5.7L NA | | | |
| EMERGENCY "STANDBY" | Std | Metric | 1500 | | 1800 | | |
| General Engine Data | TAX COLUMN | The same | | | - | POTAL P | |
| Туре | 1 | I/A | | GM V-Ty | pe 4 Cycle | | |
| Number of cylinders | 1 | V/A | 8 | | | | |
| Aspiration | 1 | I/A | Naturally Aspirated | | | | |
| Bore | in | mm | 4 | 101.6 | 4 | 101.6 | |
| Stroke | in | mm | 3.48 | 88.4 | 3.48 | 88.4 | |
| Displacement | in^3 | L | 350 | 5.7 | 350 | 5.7 | |
| Compression Ratio | N/A | | | 9. | 4:1 | | |
| RPM Range (Min-Max) | R | RPM 150 | | 1500 | 500-1800 | | |
| Rotation Viewed from Flywheel | 1 | N/A | | Counter Clockwise | | | |
| Firing Order | 1 | N/A | | 1-8-4-3-6-5-7-2 | | | |
| Dry Weight (long Block) | lb | kg | 432 | 196 | 432 | 196 | |
| Pross Standby Power Rating 1,2,3 Per ISO 3046 at the Flywheel | | | HP | KW | HP | KW | |
| LPG | | | 94.30 | 70.32 | 113.16 | 84.3 | |
| Control of the state of the sta | | | 11.71 | 1196 | 111197 | | |
| NG | | | 87.28 | 65.08 | 104.73 | 78.10 | |
| Company of the Buildings | | | 10,164 | 190 | SADO | | |
| Please ask a PSI sales representative for informa | ition regarding pr | ime power o | peration | | | | |
| xhaust System | | | | | | | |
| Туре | | | | | 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 | 470.5 | 13.32 | 552.7 | 15.82 | |
| ir Induction System | | | | Garage . | | | |
| 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 | 145.70 | 4.13 | 173.00 | 4.90 | |
| Cooling System | ACT SECTION | | | | | | |
| Coolant Capacity | | , | | - | | 1 | |
| Engine only | qts | L | 8.1 | 7.8 | 8.1 | 7.8 | |
| Heat rejected to Cooling water at rated Load | btu/min | kcal/sec | 2600 | 12.8 | 3120 | 13.1 | |
| Cracking Temperature | F | С | 160 | 71 | 160 | 71 | |
| Full Open Temperature | F | С | 185 | 85 | 185 | 85 | |
| Lubrication System | | | CAF CM | LOO ADI Da | tine of CM | - Name | |
| Oil Specification | | | | T | ating of SM o | - | |
| Maximum Allowable Oil Temperature | F | С | 250 | 121 | 250 | 121 | |
| Engine Oil Capacity | | | - | | | 4.7 | |
| Min | Qts | L | 5 | 4.7 | 5 | 4.7 | |
| Max | Qts | L | 5 | 4.7 | 3 | 4.7 | |
| uel System | | | | | | | |
| Fuel Consumption @ Rated Load | II. fl. a | leg flag | 22.0 | 15.07 | 202 | 47.0 | |
| NG | lb/hr | kg/hr | 33.9 | 15.37 | 38.2 42.1 | 17.3 19.0 | |
| LPG | lb/hr | kg/hr | 38.2 | 17.32 | | 6.9 | |
| Maximum EPR Rated Pressure | psi | kPa | 1.0 | 6.9 | 1.0 | | |
| Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR) | | kPa | 20.0 | 2.7 | 11.0 | 2.7 | |
| Recommended Minimum Running pressure to EPR | inH2O | kPa | 7.0 | 1.7 | 7.0 | 1.7 | |
| Intermed NC Cupply Dipo Cito | | | | | | | |

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

Minimum NG Supply Pipe Size Minimum LPG Supply Pipe Size4

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 englnes 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 plping 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.



5.7L Naturally Aspirated Stationary

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| | 11011 | | | | | |
|--|---------------|---------------------|--------------------------|--------|---------|--------|
| NON EMEDCENCY "DDIME" | Units | | 5.7L NA | | | |
| NON-EMERGENCY "PRIME" | Std | Metric | 15 | 00 | 18 | 00 |
| General/Engine Data | | | | | | |
| Туре | | N/A | GM V-Type 4 Cycle | | | |
| Number of cylinders | N/A 8 | | | 8 | | |
| Aspiration | | Naturally Aspirated | | | | |
| Bore | in | mm | 4 | 101.6 | 4 | 101.6 |
| Stroke | in | mm | 3.48 | 88.4 | 3.48 | 88,4 |
| Displacement | in^3 | L | 350 | 5.7 | 350 | 5.7 |
| Compression Ratio | N/A | | | 9. | 4:1 | |
| RPM Range (Min-Max) | F | 1500-1800 | | | | |
| Rotation Viewed from Flywheel | | Counter Clockwise | | | | |
| Firing Order | | 1-8-4-3-6-5-7-2 | | | | |
| Dry Weight (long Block) | lb | kg | 432 | 196 | 432 | 196 |
| ross Prime Power Rating 123 Per ISO 3046 at the Flywheel | | V Venne | HP | KW | HP | KW |
| LPG | | | 84.87 | 63.28 | 101.84 | 75.94 |
| had helpfung and others. | | | Bright Page | 111/14 | 191 (7) | PVIII. |
| NG | | | 78.55 | 58.57 | 94.25 | 70.29 |
| College Company and TORY (I) | | | 100 | 244 | | . // |
| Please ask a PSI sales representative for information | regarding STA | NDBY power | operation | | | |
| xhaust System | | | | 172 5 | X III | |
| Туре | | | Air Cooled Manifold | | | |
| Non-Emergency Prime Rating Catalyst Configuration for US Certified Product | | | Dual Substrate Dual Sub- | | | |
| 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 | 470.5 | 13.32 | 552.7 | 15.82 |
| ir Induction System | | | | | | |

| Exhaust System | | | | 772 | X V | |
|---|-----------|----------|------------------------------------|----------|----------------|-------|
| Туре | | | Air Cooled Manifold | | | |
| Non-Emergency Prime Rating Catalyst Configuration for US Certified Product | | | Dual Su | ıbstrate | Dual 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 | 470.5 | 13.32 | 552.7 | 15.82 |
| 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 | 145.70 | 4.13 | 173.00 | 4.90 |
| Cooling System | | | | | | |
| Coolant Capacity | | | | | | |
| Engine only | qts | L | 8.1 | 7.8 | 8.1 | 7.8 |
| Heat rejected to Cooling water at rated Load | btu/min | kcal/sec | 2600 | 12.8 | 3120 | 13.1 |
| Cracking Temperature | F | С | 160 | 71 | 160 | 71 |
| Full Open Temperature | F | С | 185 | 85 | 185 | 85 |
| Lubrication System | 1 5 5 7 0 | | | | | |
| Oil Specification | | | SAE 5W-30 API Rating of SM or Newe | | | |
| Maximum Allowable Oil Temperature | F | С | 250 | 121 | 250 | 121 |
| Engine Oil Capacity | | | | | > - C \ | |
| Min | Qts | L | 5 | 4.7 | 5 | 4.7 |
| Max | Qts | | 5 | 4.7 | 5 | 4.7 |
| Fuel System | | | | | | |
| Fuel Consumption @ Rated Load | | | | | | |
| NG | lb/hr | kg/hr | 33.9 | 15.37 | 38.2 | 17.32 |
| LPG | lb/hr | kg/hr | 38.2 | 17.32 | 42.1 | 19.09 |
| 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 | 20.0 | 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 Size⁴ | | | 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.

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.