



5.7L Turbo Charge Air Cooled Stationary

EMERGENCY "STANDBY"



Date: 10/15/2015
Rev: E

| Units | | 5.7L CAC | | | |
|-------|--------|----------|--|------|--|
| Std | Metric | 1500 | | 1800 | |

| General Engine Data | | | | | | | |
|---|--------------------|---------------------|-------------------------------------|--------|----------------|--------|--|
| Type | N/A | | GM V-Type 4 Cycle | | | | |
| Number of cylinders | N/A | | 8 | | | | |
| Aspiration | N/A | | Forced Induction | | | | |
| 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) | RPM | | 1500-1800 | | | | |
| Rotation Viewed from Flywheel | N/A | | Counter Clockwise | | | | |
| Firing Order | N/A | | 1-8-4-3-6-5-7-2 | | | | |
| Dry Weight (long Block) | lb | kg | 432 | 196 | 432 | 196 | |
| Gross Standby Power Rating ^{1,2,3} Per ISO 3046 at the Flywheel | | | HP | KW | HP | KW | |
| LP | | | 124.23 | 92.64 | 149.07 | 111.11 | |
| Standby Rating Average Load Factor - LP | | | 101.86 | 75.96 | 122.23 | 91.15 | |
| NG | | | 134.13 | 100.02 | 163.54 | 122.00 | |
| Standby Rating Average Load Factor - NG | | | 109.98 | 82.01 | 135.2 | 100.86 | |
| The 5.7L Turbo CAC Engine is not offered in a PRIME Application | | | | | | | |
| Exhaust System | | | | | | | |
| Type | | | Air Cooled Manifold | | | | |
| Emergency Standby Rating Catalyst Configuration for US Certified Product | | | Dual Substrate | | 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 | 712.3 | 20.17 | 845.9 | 23.95 | |
| Air Induction System | | | | | | | |
| Maximum allowable Intake Air Restriction with Air Cleaner | | | | | | | |
| Clean | inH ₂ O | kPa | 3 | 1.49 | 3 | 1.49 | |
| Dirty | inH ₂ O | kPa | 13 | 3.24 | 13 | 3.24 | |
| Combustion Air required (volume) | cfm | m ³ /min | 220.60 | 6.25 | 262.00 | 7.42 | |
| 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 | 3930 | 16.5 | 4100 | 17.2 | |
| Cracking Temperature | F | C | 160 | 71 | 160 | 71 | |
| Full Open Temperature | F | C | 185 | 85 | 185 | 85 | |
| Lubrication System | | | | | | | |
| Oil Specification | | | SAE 5W-30 API Rating of SM or Newer | | | | |
| Maximum Allowable Oil Temperature | F | C | 250 | 121 | 250 | 121 | |
| Engine Oil Capacity | | | | | | | |
| Min | Qts | L | 5 | 4.7 | 5 | 4.7 | |
| Max | Qts | L | 5 | 4.7 | 5 | 4.7 | |
| Fuel System | | | | | | | |
| Fuel Consumption @ Rated Load | | | | | | | |
| NG | lb/hr | kg/hr | 50.75 | 22.5 | 60.9 | 27 | |
| LP | lb/hr | kg/hr | N/A | N/A | 59 | 26.75 | |
| Maximum EPR Rated Pressure | psi | kPa | 1.0 | 6.9 | 1.0 | 6.9 | |
| Recommended Maximum Running pressure to Electronic Pressure Regulator (EPR) | inH ₂ O | kPa | 11.0 | 2.7 | 11.0 | 2.7 | |
| Recommended Minimum Running pressure to EPR | inH ₂ O | kPa | 7.0 | 1.7 | 7.0 | 1.7 | |
| Minimum NG Supply Pipe Size | | | 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

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 preceding 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