



**POWER SOLUTIONS
INTERNATIONAL**

**8.8L
Charge Air Cooled
Stationary
Emergency Only**



Revision: A
Last Revised: 7/22/2014

Rev:	A					
Units			8.8L CAC			
Std	Metric		1500		1800	

General Engine Data						
Type	N/A		PSI V-Type 4 Cycle			
Number of cylinders	N/A		8			
Aspiration	N/A		Forced Induction			
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)	RPM		1500-1800			
Rotation Viewed from Flywheel	N/A		Counter Clockwise			
Firing Order	N/A		1-8-7-2-6-5-4-3			
Dry Weight (long Block)	lb	kg	730	307	730	307
Gross Intermittent Power Rating at the Flywheel						
LP	Hp	kW	191.77	143.00	230.12	171.60
NG	Hp	kW	217.89	162.48	261.47	194.98
Gross Continuous Power Rating at the Flywheel						
LP	Hp	kW	N/A	N/A	N/A	N/A
NG	Hp	kW	N/A	N/A	N/A	N/A
Exhaust System						
Type			Air Cooled Manifold			
Intermittent Rating Catalyst Configuration for US Certified Product			Dual- 5.66"x6"		Dual- 5.66"x6"	
Continuous Rating Catalyst Configuration for US Certified Product			Not Applicable		Not Applicable	
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	970.2	27.47	1177.5	33.34
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	300.4	8.51	364.6	10.33
Cooling System						
Coolant Capacity						
Engine only	qts	L	14.5	13.7	14.5	13.7
Heat rejected to Cooling water at rated Load	btu/min	kcal/sec	3560	14.96	5021	21.1
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	8	7.57	8	7.57
Max	Qts	L	8	7.57	8	7.57
Fuel System						
Fuel Consumption @ Rated Load						
NG	lb/hr	kg/hr	N/A	N/A	86	39
LP	lb/hr	kg/hr	N/A	N/A	81	36.74
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			1-1/4" NPT			
Minimum LPG Supply Pipe Size ⁴			3/4"			

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.

⁵ >1400RPM

⁶ See NGE Technical Spec. 56300002 - Fuel Specification