



**POWER SOLUTIONS  
INTERNATIONAL**

## 8.8L Turbocharged Stationary

### EMERGENCY "STANDBY"



Date: 7/7/2015

Rev: E

Units		8.8L T			
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 <sup>3</sup>	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 Standby Power Rating <sup>1,2,3</sup> Per ISO 3046 at the Flywheel			HP	KW	HP	KW	
LP			N/A	N/A	N/A	N/A	
Standby Rating Average Load Factor - LP			N/A	N/A	N/A	N/A	
NG			164.30	122.52	197.32	147.20	
Standby Rating Average Load Factor - NG			134.72	100.46	162.68	121.36	
<b>The 8.8L Turbocharged Engine is not offered in a PRIME Application</b>							
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 <sup>3</sup> /min	838.7	23.75	1017.9	28.82	
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 <sup>3</sup> /min	259.7	7.35	315.2	8.93	
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	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							
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	67.75	30.73	
LP	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			1-1/4" NPT				
Minimum LPG Supply Pipe Size <sup>4</sup>			3/4"				

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

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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