



General Engine Data ⁵														
Type	V-type 4-cycle				Flywheel housing				SAE #0					
Number of cylinders	16				Flywheel				SAE #18					
Aspiration	Charge Cooled Forced Induction				Dry Weight	Fan to Flywheel		lb	kg	12125	5500			
Firing Order	1 - 7 - 12 - 14 - 4 - 16 - 2 - 8 - 11 - 13 - 3 - 5 - 10 - 6 - 9 - 15					Radiator to Flywheel		lb	kg	13625	6180			
Rotation Viewed from Flywheel	Counter-Clockwise				Wet Weight	Fan to Flywheel		lb	kg	12692	5757			
Bore	in	mm	5.91	150		Radiator to Flywheel		lb	kg	14541	6596			
Stroke	in	mm	7.28	185	CG From Rear Face of Flywheel Housing				in	mm	51.3	1303		
Displacement	in ³	L	3192	52.3	CG Above Crank Centerline				in	mm	7.3	186		
Compression Ratio	10.5 : 1				Oil Specification				SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight					
Exhaust Manifold Type	Water Cooled				Engine Oil Capacity		Min	qts	L	120	114			
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89			Max	qts	L	181	171			
Catalyst Inlet Size (O.D)	in	mm	6	152	ECU Oil Pressure Warning ⁶				psi	bar	57	3.9		
Catalyst Dp	in-H ₂ O	kPa	33	8.3	ECU Oil Pressure Shut Down ⁶				psi	bar	47	3.2		
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4			
Maximum Fuel System Pressure ⁸	psi	kPag	29	200			Max	psi	bar	82	6			
Maximum Operating pressure to MFG	in-H ₂ O	kPa	30	7.5	Max Allowable Oil Temperature				°F	°C	250	121		
Minimum Operating pressure to MFG	in-H ₂ O	kPa	20	5.0	Coolant Capacity (Engine only)				gal	L	26	100		
Minimum Gas Supply Pipe Size ¹³	in	mm	3	76	Coolant Capacity (Radiator only)				gal	L	39	148		
Maximum Pressure Drop Across CAC	psi	kPa	1.5	10.3	Radiator Weight (Dry)				lb	kg	1500	680		
Maximum Allowable Intake Restriction	Clean Air Filter	in-H ₂ O	kPa	5.2	1.3	Thermostat Operating Temperature Range ⁹		Cracking	°F	°C	176	80		
	Dirty Air Filter	in-H ₂ O	kPa	14.9	3.7			Full Open	°F	°C	198	92		
Spark Plug Part Number	Denso GK3-5				ECU Coolant Temp Warning				°F	°C	219	104		
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	ECU Coolant Temp Shutdown				°F	°C	230	110		
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		Maximum Radiator Cooling Air Temp				°F	°C	140	60		
Battery Voltage	Volts				24		Max External Coolant Friction Head				psi	kPa	9	60
Starter Motor Power (2X starters)	HP	kW	13.4	10	CAC Rise Above Ambient Specified				°F	°C	15	8		

Performance Data 60Hz ^{3,5}														
Nominal Engine Speed	RPM				1800		Total Engine Coolant Flow		gal/min	L/min	601	2274		
Mean Piston Speed	ft/min	m/s	2185	11.1	Cooling Fan Power ¹¹				HP	kW	107	80		
Steady-State RPM Range - ISO 8528-5 G3	RPM				1791 - 1809		Cooling Fan Speed				RPM		1206	
Charging Alternator Voltage	Volts				28		Cooling Fan Air Flow ¹¹				SCFM	m ³ /min	67300	1905.71
Charging Alternator Current	Amps				55									

Prime 60Hz Natural Gas	Load		100%		75%		50%		25%	
	HP	kWm	1431	1067	1073	800	715	534	358	267
Power Rating ^{1,2,3,4} Per ISO 3046	HP	kWm	1431	1067	1073	800	715	534	358	267
Brake Mean Effective Pressure	psi	bar	197	13.6	148	10.2	99	6.8	49	3.4
Fuel Consumption ^{3,4,7,12}	lb/hr	kg/hr	513	233	397	180	287	130	182	82
	ft ³ /hr	m ³ /hr	11453	324	8879	251	6413	182	4057	115
Brake Specific Fuel Consumption	lb/(hp-hr)	g/(kW-hr)	0.358	218	0.370	225	0.401	244	0.508	309
Turbine Outlet Temperature	°F	°C	1200	649	1182	639	1167	631	1127	608
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	9020	4092	6987	3169	5036	2284	3168	1437
	ACFM	m ³ /min	6178	175	4743	134	3391	96	2088	59

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	8508	3859	6590	2989	4749	2154	2987	1355
	ACFM	m ³ /min	1999	57	1549	44	1116	32	702	20
Compressor Outlet Temperature ²	°F	°C	289	143	234	112	175	80	126	52

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	174425	3067	135220	2378	97672	1717	61779	1086
Mechanical Power	BTU/min	kW	60679	1067	45509	800	30340	534	15170	267
Heat Rejected to Cooling Water	BTU/min	kW	48148	847	40361	710	32574	573	24787	436
Heat Rejected to CAC	BTU/min	kW	7430	131	4256	75	1734	30	325	6
Heat Rejection to Exhaust	BTU/min	kW	53976	949	40939	720	28628	503	17044	300
Engine Radiated Heat	BTU/min	kW	4192	74	4155	73	4396	77	4453	78

1: Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Power Systems Technical Spec #56100017 - Engine Ratings Guidelines

2: Technical data based on ISO 3046-1 standards of 77°F(25°C), barometric pressure 14.5Psi (100kPa) and 30% relative humidity.

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: All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.

5: All values in the following section are provided for informational purpose only and are non-binding.

6: >1400RPM.

7: See PSI Power Systems Technical Spec. 56100019 - Fuel Standard.

8: Maximum pressure the fuel system components can withstand without being damaged. Operating pressure should fall between the listed minimum and maximum pressures.

9: ± 2 degrees Celsius.

10: ± 0.002" or 0.05mm.

11: At 0.5 in-H₂O of Package Restriction at STP.

12: Volume calculated using density of 0.717 kg/m³ for NG, 0.51 kg/L for LPG

13: See 56100051 - MFG Fuel System Setup Guide



General Engine Data ⁵														
Type	V-type 4-cycle				Flywheel housing				SAE #0					
Number of cylinders	16				Flywheel				SAE #18					
Aspiration	Charge Cooled Forced Induction				Dry Weight	Fan to Flywheel		lb	kg	12125	5500			
Firing Order	1 - 7 - 12 - 14 - 4 - 16 - 2 - 8 - 11 - 13 - 3 - 5 - 10 - 6 - 9 - 15					Radiator to Flywheel		lb	kg	13625	6180			
Rotation Viewed from Flywheel	Counter-Clockwise				Wet Weight	Fan to Flywheel		lb	kg	12692	5757			
Bore	in	mm	5.91	150		Radiator to Flywheel		lb	kg	14541	6596			
Stroke	in	mm	7.28	185	CG From Rear Face of Flywheel Housing				in	mm	51.3	1303		
Displacement	in ³	L	3192	52.3	CG Above Crank Centerline				in	mm	7.3	186		
Compression Ratio	10.5 : 1				Oil Specification				SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight					
Exhaust Manifold Type	Water Cooled				Engine Oil Capacity		Min	qts	L	120	114			
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89			Max	qts	L	181	171			
Catalyst Inlet Size (O.D)	in	mm	6	152	ECU Oil Pressure Warning ⁶				psi	bar	57	3.9		
Catalyst Dp	in-H ₂ O	kPa	33	8.3	ECU Oil Pressure Shut Down ⁶				psi	bar	47	3.2		
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4			
Maximum Fuel System Pressure ⁸	psi	kPag	29	200			Max	psi	bar	82	6			
Maximum Operating pressure to MFG	in-H ₂ O	kPa	30	7.5	Max Allowable Oil Temperature				°F	°C	250	121		
Minimum Operating pressure to MFG	in-H ₂ O	kPa	20	5.0	Coolant Capacity (Engine only)		gal	L	26	100				
Minimum Gas Supply Pipe Size ¹³	in	mm	3	76	Coolant Capacity (Radiator only)		gal	L	39	148				
Maximum Pressure Drop Across CAC	psi	kPa	1.5	10.3	Radiator Weight (Dry)				lb	kg	1500	680		
Maximum Allowable Intake Restriction	Clean Air Filter	in-H ₂ O	kPa	5.2	1.3	Thermostat Operating Temperature Range ⁹		Cracking	°F	°C	176	80		
	Dirty Air Filter	in-H ₂ O	kPa	14.9	3.7			Full Open	°F	°C	198	92		
Spark Plug Part Number	Denso GK3-5				ECU Coolant Temp Warning				°F	°C	219	104		
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	ECU Coolant Temp Shutdown				°F	°C	230	110		
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		Maximum Radiator Cooling Air Temp				°F	°C	140	60		
Battery Voltage	Volts				24		Max External Coolant Friction Head				psi	kPa	9	60
Starter Motor Power (2X starters)	HP	kW	13.4	10	CAC Rise Above Ambient Specified				°F	°C	15	8		

Performance Data 50Hz ^{3,5}													
Nominal Engine Speed	RPM				1500		Total Engine Coolant Flow		gal/min	L/min	460	1743	
Mean Piston Speed	ft/min	m/s	1821	9.3	Cooling Fan Power ¹¹				HP	kW	62	46	
Steady-State RPM Range - ISO 8528-5 G3	RPM				1778 - 1823		Cooling Fan Speed				RPM		1005
Charging Alternator Voltage	Volts				28		Cooling Fan Air Flow ¹¹		SCFM	m ³ /min	56080	1588	
Charging Alternator Current	Amps				53								

Prime 50Hz Natural Gas	Load		100%		75%		50%		25%	
	HP	kWm	1191	888	893	666	662	444	298	222
Power Rating ^{1,2,3,4} Per ISO 3046	HP	kWm	1191	888	893	666	662	444	298	222
Brake Mean Effective Pressure	psi	bar	197	13.6	148	10.2	98	6.8	49	3.4
Fuel Consumption ^{3,4,7,12}	lb/hr	kg/hr	409	185	318	144	230	104	145	66
	ft ³ /hr	m ³ /hr	9136	259	7109	201	5140	146	3230	91
Brake Specific Fuel Consumption	lb/(hp-hr)	g/(kW-hr)	0.343	209	0.356	217	0.386	235	0.486	295
Turbine Outlet Temperature	°F	°C	1151	622	1140	615	1111	599	1051	566
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	7178	3256	5541	2513	3978	1804	2488	1128
	ACFM	m ³ /min	4793	136	3677	104	2600	74	1574	45
Air Induction System⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	6769	3070	5223	2369	3747	1700	2343	1063
	ACFM	m ³ /min	1559	44	1203	34	863	24	540	15
Compressor Outlet Temperature ²	°F	°C	308	154	252	122	188	87	128	54
Thermal Balance⁵										
Total Fuel	BTU/min	kW	138855	2442	108043	1900	78123	1374	49095	863
Mechanical Power	BTU/min	kW	50500	888	37875	666	25250	444	12625	222
Heat Rejected to Cooling Water	BTU/min	kW	38832	683	32639	574	26446	465	20253	356
Heat Rejected to CAC	BTU/min	kW	4160	73	2169	38	868	15	200	4
Heat Rejection to Exhaust	BTU/min	kW	40157	706	30370	534	21091	371	12321	217
Engine Radiated Heat	BTU/min	kW	5207	92	4990	88	4468	79	3696	65

1: Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Power Systems Technical Spec #56100017 - Engine Ratings Guidelines

2: Technical data based on ISO 3046-1 standards of 77°F(25°C), barometric pressure 14.5Psia (100kPa) and 30% relative humidity.

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: All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.

5: All values in the following section are provided for informational purpose only and are non-binding.

6: >1400RPM.

7: See PSI Power Systems Technical Spec. 56100019 - Fuel Standard.

8: Maximum pressure the fuel system components can withstand without being damaged. Operating pressure should fall between the listed minimum and maximum pressures.

9: ± 2 degrees Celsius.

10: ± 0.002" or 0.05mm.

11: At 0.5 in-H₂O of Package Restriction at STP.

12: Volume calculated using density of 0.717 kg/m³ for NG, 0.51 kg/L for LPG

13: See 56100051 - MFG Fuel System Setup Guide



General Engine Data ⁵														
Type	V-type 4-cycle				Flywheel housing				SAE #0					
Number of cylinders	16				Flywheel				SAE #18					
Aspiration	Charge Cooled Forced Induction				Dry Weight	Fan to Flywheel		lb	kg	5500				
Firing Order	1 - 7 - 12 - 14 - 4 - 16 - 2 - 8 - 11 - 13 - 3 - 5 - 10 - 6 - 9 - 15					Radiator to Flywheel		lb	kg	13625	6180			
Rotation Viewed from Flywheel	Counter-Clockwise				Wet Weight	Fan to Flywheel		lb	kg	12692	5757			
Bore	in	mm	5.91	150		Radiator to Flywheel		lb	kg	14541	6596			
Stroke	in	mm	7.28	185	CG From Rear Face of Flywheel Housing				in	mm	51.3	1303		
Displacement	in ³	L	3192	52.3	CG Above Crank Centerline				in	mm	7.3	186		
Compression Ratio	10.5 : 1				Oil Specification				SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight					
Exhaust Manifold Type	Water Cooled				Engine Oil Capacity		Min	qts	L	120	114			
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89			Max	qts	L	181	171			
Catalyst Inlet Size (O.D)	in	mm	6	152	ECU Oil Pressure Warning ⁶				psi	bar	57	3.9		
Catalyst Dp	in-H ₂ O	kPa	33	8.3	ECU Oil Pressure Shut Down ⁶				psi	bar	47	3.2		
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4			
Maximum Fuel System Pressure ⁸	psi	kPag	29	200			Max	psi	bar	82	6			
Maximum Operating pressure to MFG	in-H ₂ O	kPa	30	7.5	Max Allowable Oil Temperature				°F	°C	250	121		
Minimum Operating pressure to MFG	in-H ₂ O	kPa	20	5.0	Coolant Capacity (Engine only)		gal	L	26	100				
Minimum Gas Supply Pipe Size ¹³	in	mm	3	76	Coolant Capacity (Radiator only)		gal	L	39	148				
Maximum Pressure Drop Across CAC	psi	kPa	1.5	10.3	Radiator Weight (Dry)				lb	kg	1500	680		
Maximum Allowable Intake Restriction	Clean Air Filter	in-H ₂ O	kPa	5.2	1.3	Thermostat Operating Temperature Range ⁹		Cracking	°F	°C	176	80		
	Dirty Air Filter	in-H ₂ O	kPa	14.9	3.7			Full Open	°F	°C	198	92		
Spark Plug Part Number	Denso GK3-5				ECU Coolant Temp Warning				°F	°C	219	104		
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	ECU Coolant Temp Shutdown				°F	°C	230	110		
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		Maximum Radiator Cooling Air Temp				°F	°C	140	60		
Battery Voltage	Volts				24		Max External Coolant Friction Head				psi	kPa	9	60
Starter Motor Power (2X starters)	HP	kW	13.4	10	CAC Rise Above Ambient Specified				°F	°C	15	8		

Performance Data 60Hz ^{3,5}													
Nominal Engine Speed	RPM				1800		Total Engine Coolant Flow		gal/min	L/min	601	2274	
Mean Piston Speed	ft/min	m/s	2185	11.1	Cooling Fan Power ¹¹				HP	kW	107	80	
Steady-State RPM Range - ISO 8528-5 G3	RPM				1791 - 1809		Cooling Fan Speed				RPM		1206
Charging Alternator Voltage	Volts				28		Cooling Fan Air Flow ¹¹		SCFM	m ³ /min	67300	1906	
Charging Alternator Current	Amps				55								

	Prime 60Hz LPG		Load		100%		75%		50%		25%	
	HP	kWm										
Power Rating ^{1,2,3,4} Per ISO 3046	HP	kWm	1077	803	808	602	538	402	269	201		
Brake Mean Effective Pressure	psi	bar	148	10.2	111	7.7	74	5.1	37	2.6		
Fuel Consumption ^{3,4,7,12}	lb/hr	kg/hr	445	202	337	153	241	109	157	71		
	gal/hr	L/hr	104	395	79	299	57	214	37	140		
Brake Specific Fuel Consumption	lb/(hp-hr)	g/(kW-hr)	0.413	251	0.417	253	0.447	272	0.584	355		
Turbine Outlet Temperature	°F	°C	1297	703	1230	665	1170	632	1112	600		
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	7367	3342	5545	2515	3944	1789	2565	1163		
	ACFM	m ³ /min	5309	150	3858	109	2660	75	1677	47		
Air Induction System ⁵												
Combustion Air required (entire engine)	lb/hr	kg/hr	6922	3140	5209	2363	3703	1680	2407	1092		
	ACFM	m ³ /min	1589	45	1196	34	850	24	553	16		
Compressor Outlet Temperature ²	°F	°C	246	119	189	87	142	61	111	44		
Thermal Balance ⁵												
Total Fuel	BTU/min	kW	149630	2631	113266	1992	81033	1425	52932	931		
Mechanical Power	BTU/min	kW	45666	803	34249	602	22833	402	11416	201		
Heat Rejected to Cooling Water	BTU/min	kW	45702	804	38838	683	31973	562	25109	442		
Heat Rejected to CAC	BTU/min	kW	4691	82	2197	39	779	14	157	3		
Heat Rejection to Exhaust	BTU/min	kW	47148	829	33206	584	21963	386	13419	236		
Engine Radiated Heat	BTU/min	kW	6424	113	4776	84	3485	61	2830	50		

1: Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Power Systems Technical Spec #56100017 - Engine Ratings Guidelines

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6: >1400RPM.

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8: Maximum pressure the fuel system components can withstand without being damaged. Operating pressure should fall between the listed minimum and maximum pressures.

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11: At 0.5 in-H₂O of Package Restriction at STP.

12: Volume calculated using density of 0.717 kg/m³ for NG, 0.51 kg/L for LPG

13: See 56100051 - MFG Fuel System Setup Guide



General Engine Data ⁵														
Type	V-type 4-cycle				Flywheel housing				SAE #0					
Number of cylinders	16				Flywheel				SAE #18					
Aspiration	Charge Cooled Forced Induction				Dry Weight	Fan to Flywheel		lb	kg	5500				
Firing Order	1 - 7 - 12 - 14 - 4 - 16 - 2 - 8 - 11 - 13 - 3 - 5 - 10 - 6 - 9 - 15					Radiator to Flywheel		lb	kg	13625	6180			
Rotation Viewed from Flywheel	Counter-Clockwise				Wet Weight	Fan to Flywheel		lb	kg	12692	5757			
Bore	in	mm	5.91	150		Radiator to Flywheel		lb	kg	14541	6596			
Stroke	in	mm	7.28	185	CG From Rear Face of Flywheel Housing				in	mm	51.3	1303		
Displacement	in ³	L	3192	52.3	CG Above Crank Centerline				in	mm	7.3	186		
Compression Ratio	10.5 : 1				Oil Specification				SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight					
Exhaust Manifold Type	Water Cooled				Engine Oil Capacity		Min	qts	L	120	114			
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89			Max	qts	L	181	171			
Catalyst Inlet Size (O.D)	in	mm	6	152	ECU Oil Pressure Warning ⁶				psi	bar	57	3.9		
Catalyst Dp	in-H ₂ O	kPa	33	8.3	ECU Oil Pressure Shut Down ⁶				psi	bar	47	3.2		
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4			
Maximum Fuel System Pressure ⁸	psi	kPag	29	200			Max	psi	bar	82	6			
Maximum Operating pressure to MFG	in-H ₂ O	kPa	30	7.5	Max Allowable Oil Temperature				°F	°C	250	121		
Minimum Operating pressure to MFG	in-H ₂ O	kPa	20	5.0	Coolant Capacity (Engine only)		gal	L	26	100				
Minimum Gas Supply Pipe Size ¹³	in	mm	3	76	Coolant Capacity (Radiator only)		gal	L	39	148				
Maximum Pressure Drop Across CAC	psi	kPa	1.5	10.3	Radiator Weight (Dry)				lb	kg	1500	680		
Maximum Allowable Intake Restriction	Clean Air Filter	in-H ₂ O	kPa	5.2	1.3	Thermostat Operating Temperature Range ⁹		Cracking	°F	°C	176	80		
	Dirty Air Filter	in-H ₂ O	kPa	14.9	3.7			Full Open	°F	°C	198	92		
Spark Plug Part Number	Denso GK3-5				ECU Coolant Temp Warning				°F	°C	219	104		
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	ECU Coolant Temp Shutdown				°F	°C	230	110		
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		Maximum Radiator Cooling Air Temp				°F	°C	140	60		
Battery Voltage	Volts				24		Max External Coolant Friction Head				psi	kPa	9	60
Starter Motor Power (2X starters)	HP	kW	13.4	10	CAC Rise Above Ambient Specified				°F	°C	15	8		

Performance Data 50Hz ^{3,5}													
Nominal Engine Speed	RPM				1500		Total Engine Coolant Flow		gal/min	L/min	460	1743	
Mean Piston Speed	ft/min	m/s	1821	9.3	Cooling Fan Power ¹¹				HP	kW	62	46	
Steady-State RPM Range - ISO 8528-5 G3	RPM				1778 - 1823		Cooling Fan Speed				RPM		1005
Charging Alternator Voltage	Volts				28		Cooling Fan Air Flow ¹¹		SCFM	m ³ /min	56080	1588	
Charging Alternator Current	Amps				53								

Prime 50Hz LPG	Load		100%		75%		50%		25%	
	HP	kWm	898	670	674	503	449	335	225	168
Power Rating ^{1,2,3,4} Per ISO 3046	psi	bar	149	10.2	111	7.7	74	5.1	37	2.6
Brake Mean Effective Pressure	lb/hr	kg/hr	333	151	263	119	193	87	123	56
	gal/hr	L/hr	78	296	62	234	45	171	29	109
Fuel Consumption ^{3,4,7,12}	lb/(hp-hr)	g/(kW-hr)	0.371	225	0.390	237	0.429	261	0.546	332
Brake Specific Fuel Consumption	°F	°C	1086	586	1049	565	1016	547	962	517
Turbine Outlet Temperature	lb/hr	kg/hr	5702	2586	4355	1976	3114	1413	1979	898
Exhaust Flow at Turbine Outlet Conditions (entire engine)	ACFM	m ³ /min	3678	104	2753	78	1931	55	1189	34

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	5369	2435	4092	1856	2922	1325	1856	842
	ACFM	m ³ /min	1223	35	932	26	666	19	423	12
Compressor Outlet Temperature ²	°F	°C	194	90	154	68	122	50	102	39

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	116398	2047	89499	1574	64594	1136	41684	733
Mechanical Power	BTU/min	kW	38102	670	28577	503	19051	335	9526	168
Heat Rejected to Cooling Water	BTU/min	kW	34954	615	29275	515	23596	415	17917	315
Heat Rejected to CAC	BTU/min	kW	2379	42	1069	19	352	6	57	1
Heat Rejection to Exhaust	BTU/min	kW	34056	599	24163	425	15845	279	9100	160
Engine Radiated Heat	BTU/min	kW	6907	121	6415	113	5751	101	5084	89

1: Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Power Systems Technical Spec #56100017 - Engine Ratings Guidelines

2: Technical data based on ISO 3046-1 standards of 77°F(25°C), barometric pressure 14.5Psia (100kPa) and 30% relative humidity.

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: All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.

5: All values in the following section are provided for informational purpose only and are non-binding.

6: >1400RPM.

7: See PSI Power Systems Technical Spec. 56100019 - Fuel Standard.

8: Maximum pressure the fuel system components can withstand without being damaged. Operating pressure should fall between the listed minimum and maximum pressures.

9: ± 2 degrees Celsius.

10: ± 0.002" or 0.05mm.

11: At 0.5 in-H₂O of Package Restriction at STP.

12: Volume calculated using density of 0.717 kg/m³ for NG, 0.51 kg/L for LPG

13: See 56100051 - MFG Fuel System Setup Guide