40L

PSI ENERGY

[Stoic.]	
56100026	Rev: 7

General Engine Data[5]

Type	V-Series				Flywheel housing			SAE No.0			
Number of cylinders	12				Flywheel			SAE No.18			
Aspiration	Charged Cooled Forced Induction				Dry Weight (Fan to Flywheel)		lb	kg	7432	3371
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)		lb	kg	7894	3581
Rotation Viewed from Flywheel	Counter Clockwise				CG From Outer Flywheel Housing		in	mm	37.5	952
Bore	in	mm	5.906	150	CG Above Crank Centerline		in	mm	8	211
Stroke	in	mm	7.283	185	Oil Specification		SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight			
Displacement	in^3	L	2392	39.2	Engine Oil Capacity[8]	Min	qts	L	126.8	120.0
Compression Ratio	10.5 : 1					Max	qts	L	154.3	146.0
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning[6]		psi	bar	57	3.9
Turbo Exhaust Outlet Pipe Size	in	mm	3.50	89	ECU Oil Pressure Shut Down[6]		psi	bar	47	3.2
Catalyst Inlet Size	in	mm	5.00	124	Oil Pressure at 1000 RPM (Idle)	Min	psi	bar	60	4.1
Catalyst Dp	in-H_2O	kPa	33	8.3		Max	psi	bar	82	5.7
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Max Allowable Oil Temperature		°F	°C	250	121
Maximum Fuel System Pressure	psi	kPag	29	200	Coolant Capacity (Engine only)		gal	L	20.1	76
Maximum Operating pressure to MFG	in-H_2O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	25.3	96
Minimum Operating pressure to MFG	in-H_2O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1289	586
Minimum Gas Supply Pipe Size [5,12]	in	mm	3	76	Thermostat Operating Temperature Range[9]	Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC	psi	kPa	2.2	15.0		Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction (Clean Air Filter)	in-H_2O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
Maximum Allowable Intake Restriction (Dirty Air Filter)	in-H_2O	kPa	15.0	3.7	ECU Coolant Temp Shutdown		°F	°C	230	110
Spark Plug Part Number	Denso GK3-5				Maximum Radiator Cooling Air Temp		°F	°C	140	60
Standard Spark Plug Gap[10]	in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		CAC Rise Above Ambient Specified		F	C	15	8.3
Battery Voltage	Volts		24							
Starter Motor Power	HP	kW	13.4	10						

Performance Data 60Hz[3,5]

Nominal Engine Speed	RPM		1800		Total Engine Coolant Flow	gal/min	L/min	458	1736
Mean Piston Speed	ft/min	m/s	2185	11.1	Cooling Fan Power[11]	HP	kW	53.6	40
RPM Range (Min-Max) ISO 8528-5 G1	RPM		1778 - 1823		Cooling Fan Speed	RPM		1206	
Charging Alternator Voltage	Volts		28		Cooling Fan Air Flow[11]	SCFM	m^3/min	52000	1472
Charging Alternator Current	Amps		55						

NG 60hz Standby	Load		100%		75%		50%		25%	
Power Rating[1,2,3,4] Per ISO 3046	HP	kWm	1234	920	925	690	617	460	310	231
Mean Effective Pressure	psi	bar	227	15.6	170	11.7	113	7.8	57	3.9
Fuel Consumption[3,4,7,13]	lb/hr	kg/hr	452	205	336	152	242	110	156	71
	ft^3/hr	m^3/hr	10109	286	7503	212	5410	153	3480	99
BSFC	lb/(hp-hr)	g/(kW-hr)	0.367	223	0.363	221	0.393	239	0.502	305
Turbine Outlet Temperature	°F	°C	1238	670	1185	640	1131	611	1078	581
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	7755	3518	5916	2684	4203	1907	2608	1183
	ACFM	m^3/min	5420	153	4021	114	2777	79	1675	47
Air Induction System[5]										
Combustion Air required (entire engine)	lb/hr	kg/hr	7302	3312	5580	2531	3961	1797	2452	1112
	ACFM	m^3/min	1591	45	1216	34	863	24	534	15
Compressor Outlet Temperature[2]	°F	°C	277	136	247	119	225	107	154	68
Thermal Balance[5]										
Total Fuel	BTU/min	kW	154098	2710	115643	2034	82411	1449	54546	959
Mechanical Power	BTU/min	kW	52319	920	39240	690	26160	460	13155	231
Heat Rejected to Cooling Water	BTU/min	kW	43684	768	36018	633	28352	499	20730	365
Heat Rejected to CAC	BTU/min	kW	5977	105	3992	70	2242	39	736	13
Heat Rejected to Exhaust (LHV to 150C)	BTU/min	kW	42017	739	29184	513	19192	337	12074	212
Engine Radiated Heat	BTU/min	kW	10101	178	7210	127	6465	114	7851	138

[1] Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Energy 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 Energy Technical Spec. 56100019 - Fuel Standard.

[8] Standard Sump Capacity.

[9] ± 2 degrees Celsius.

[10] ± 0.002" or 0.05mm.

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

[12] See 56100051 - MFG Fuel System Setup Guide

[13] Volume calculated using density of 0.717 kg/m3 for NG, 0.51 kg/L for LPG

40L

PSI ENERGY

[Stoic.]
56100026 Rev: 7

General Engine Data[5]

Type	V-Series				Flywheel housing		SAE No.0		
Number of cylinders	12				Flywheel		SAE No.18		
Aspiration	Charged Cooled Forced Induction				Dry Weight (Fan to Flywheel)		lb	kg	7432	3371
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)		lb	kg	7894	3581
Rotation Viewed from Flywheel	Counter Clockwise				CG From Outer Flywheel Housing		in	mm	37.5	952
Bore	in	mm	5.906	150	CG Above Crank Centerline		in	mm	8	211
Stroke	in	mm	7.283	185	Oil Specification		SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight			
Displacement	in^3	L	2392	39.2	Engine Oil Capacity[8]	Min	qts	L	126.8	120.0
Compression Ratio	10.5 : 1					Max	qts	L	154.3	146.0
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning[6]		psi	bar	57	3.9
Turbo Exhaust Outlet Pipe Size	in	mm	3.50	89	ECU Oil Pressure Shut Down[6]		psi	bar	47	3.2
Catalyst Inlet Size	in	mm	5.00	124	Oil Pressure at 1000 RPM (Idle)	Min	psi	bar	60	4.1
Catalyst Dp	in-H_2O	kPa	33	8.3		Max	psi	bar	82	5.7
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Max Allowable Oil Temperature		°F	°C	250	121
Maximum Fuel System Pressure	psi	kPag	29	200	Coolant Capacity (Engine only)		gal	L	20.1	76
Maximum Operating pressure to MFG	in-H_2O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	25.3	96
Minimum Operating pressure to MFG	in-H_2O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1289	586
Minimum Gas Supply Pipe Size [5,12]	in	mm	3	76	Thermostat Operating Temperature Range[9]	Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC	psi	kPa	2.2	15.0		Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction – Clean Air Filter	in-H_2O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
Maximum Allowable Intake Restriction – Dirty Air Filter	in-H_2O	kPa	15.0	3.7	ECU Coolant Temp Shutdown		°F	°C	230	110
Spark Plug Part Number	Denso GK3-5				Maximum Radiator Cooling Air Temp		°F	°C	140	60
Standard Spark Plug Gap[10]	in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		CAC Rise Above Ambient Specified		F	C	15	8.3
Battery Voltage	Volts		24							
Starter Motor Power	HP	kW	13.4	10						

Performance Data 50Hz[3,5]

Nominal Engine Speed	RPM		1500		Total Engine Coolant Flow		gal/min	L/min	379	1436
Mean Piston Speed	ft/min	m/s	1821	9.3	Cooling Fan Power[11]		HP	kW	31.0	23
RPM Range (Min-Max) ISO 8528-5 G1	RPM		1477 - 1519		Cooling Fan Speed		RPM		1005	
Charging Alternator Voltage	Volts		28		Cooling Fan Air Flow[11]		SCFM	m^3/min	43100	1220
Charging Alternator Current	Amps		53							

NG 50hz Standby	Load		100%		75%		50%		25%	
Power Rating[1,2,3,4] Per ISO 3046	HP	kWm	992	740	744	555	496	370	250	186
Mean Effective Pressure	psi	bar	219	15.1	164	11.3	110	7.6	55	3.8
Fuel Consumption[3,4,7,13]	lb/hr	kg/hr	347	158	262	119	192	87	122	55
	ft^3/hr	m^3/hr	7762	220	5859	166	4296	122	2715	77
BSFC	lb/(hp-hr)	g/(kW-hr)	0.350	213	0.352	214	0.388	236	0.487	296
Turbine Outlet Temperature	°F	°C	1183	639	1106	597	1082	583	1065	574
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	6043	2741	4630	2100	3320	1506	2103	954
	ACFM	m^3/min	4102	116	3019	85	2137	61	1341	38
Air Induction System[5]										
Combustion Air required (entire engine)	lb/hr	kg/hr	5695	2583	4368	1981	3128	1419	1982	899
	ACFM	m^3/min	1241	35	952	27	682	19	432	12
Compressor Outlet Temperature[2]	°F	°C	250	121	242	117	182	83	127	53
Thermal Balance[5]										
Total Fuel	BTU/min	kW	118722	2088	90439	1590	64622	1136	41397	728
Mechanical Power	BTU/min	kW	42083	740	31562	555	21042	370	10581	186
Heat Rejected to Cooling Water	BTU/min	kW	35132	618	28966	509	22799	401	16669	293
Heat Rejected to CAC	BTU/min	kW	4054	71	2866	50	1388	24	332	6
Heat Rejected to Exhaust (LHV to 150C)	BTU/min	kW	30027	528	21583	380	14515	255	8853	156
Engine Radiated Heat	BTU/min	kW	7426	131	5462	96	4877	86	4961	87

[1] Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Energy 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 Energy Technical Spec. 56100019 - Fuel Standard.

[8] Standard Sump Capacity.

[9] ± 2 degrees Celsius.

[10] ± 0.002" or 0.05mm.

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

[12] See 56100051 - MFG Fuel System Setup Guide

[13] Volume calculated using density of 0.717 kg/m3 for NG, 0.51 kg/L for LPG

40L

PSI ENERGY

[Stoic.]	
56100026	Rev: 7

General Engine Data[5]

Type	V-Series				Flywheel housing		SAE No.0			
Number of cylinders	12				Flywheel		SAE No.18			
Aspiration	Charged Cooled Forced Induction				Dry Weight (Fan to Flywheel)		lb	kg	7432	3371
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)		lb	kg	7894	3581
Rotation Viewed from Flywheel	Counter Clockwise				CG From Outer Flywheel Housing		in	mm	37.5	952
Bore	in	mm	5.906	150	CG Above Crank Centerline		in	mm	8	211
Stroke	in	mm	7.283	185	Oil Specification		SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight			
Displacement	in^3	L	2392	39.2	Engine Oil Capacity[8]	Min	qts	L	126.8	120.0
Compression Ratio	10.5 : 1					Max	qts	L	154.3	146.0
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning[6]		psi	bar	57	3.9
Turbo Exhaust Outlet Pipe Size	in	mm	3.50	89	ECU Oil Pressure Shut Down[6]		psi	bar	47	3.2
Catalyst Inlet Size	in	mm	5.00	124	Oil Pressure at 1000 RPM (Idle)	Min	psi	bar	60	4.1
Catalyst Dp	in-H_2O	kPa	33	8.3		Max	psi	bar	82	5.7
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Max Allowable Oil Temperature		°F	°C	250	121
Maximum Fuel System Pressure	psi	kPag	29	200	Coolant Capacity (Engine only)		gal	L	20.1	76
Maximum Operating pressure to MFG	in-H_2O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	25.3	96
Minimum Operating pressure to MFG	in-H_2O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1289	586
Minimum Gas Supply Pipe Size [5,12]	in	mm	3	76	Thermostat Operating Temperature Range[9]	Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC	psi	kPa	2.2	15.0		Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction (Clean Air Filter)	in-H_2O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
Maximum Allowable Intake Restriction (Dirty Air Filter)	in-H_2O	kPa	15.0	3.7	ECU Coolant Temp Shutdown		°F	°C	230	110
Spark Plug Part Number	Denso GK3-5				Maximum Radiator Cooling Air Temp		°F	°C	140	60
Standard Spark Plug Gap[10]	in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		CAC Rise Above Ambient Specified		F	C	15	8.3
Battery Voltage	Volts		24							
Starter Motor Power	HP	kW	13.4	10						

Performance Data 60Hz[3,5]

Nominal Engine Speed	RPM		1800		Total Engine Coolant Flow	gal/min	L/min	458	1736
Mean Piston Speed	ft/min	m/s	2185	11.1	Cooling Fan Power[11]	HP	kW	53.6	40
RPM Range (Min-Max) ISO 8528-5 G1	RPM		1778 - 1823		Cooling Fan Speed	RPM		1206	
Charging Alternator Voltage	Volts		28		Cooling Fan Air Flow[11]	SCFM	m^3/min	52000	1472
Charging Alternator Current	Amps		55						

LPG 60hz Standby	Load		100%		75%		50%		25%	
Power Rating[1,2,3,4] Per ISO 3046	HP	kWm	783	584	587	438	392	292	197	147
Mean Effective Pressure	psi	bar	144	9.9	108	7.4	72	5.0	36	2.5
Fuel Consumption[3,4,7,13]	lb/hr	kg/hr	352	160	266	121	185	84	123	56
	gal/hr	L/hr	83	313	62	236	43	165	29	109
BSFC	lb/(hp-hr)	g/(kW-hr)	0.449	273	0.453	275	0.473	288	0.625	380
Turbine Outlet Temperature	°F	°C	1292	700	1199	648	1118	603	1050	565
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	5786	2625	4363	1979	3112	1412	2051	930
	ACFM	m^3/min	4160	118	2988	85	2042	58	1297	37
Air Induction System[5]										
Combustion Air required (entire engine)	lb/hr	kg/hr	5434	2465	4098	1859	2927	1328	1928	875
	ACFM	m^3/min	1184	34	893	25	638	18	420	12
Compressor Outlet Temperature[2]	°F	°C	255	124	243	117	174	79	124	51
Thermal Balance[5]										
Total Fuel	BTU/min	kW	119825	2107	89725	1578	63603	1118	41574	731
Mechanical Power	BTU/min	kW	33211	584	24909	438	16606	292	8351	147
Heat Rejected to Cooling Water	BTU/min	kW	27735	488	22869	402	18002	317	13164	231
Heat Rejected to CAC	BTU/min	kW	4076	72	2700	47	1450	26	334	6
Heat Rejected to Exhaust (LHV to 150C)	BTU/min	kW	32842	578	22321	392	14238	250	8618	152
Engine Radiated Heat	BTU/min	kW	21960	386	16927	298	13307	234	11107	195

[1] Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Energy 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 Energy Technical Spec. 56100019 - Fuel Standard.

[8] Standard Sump Capacity.

[9] ± 2 degrees Celsius.

[10] ± 0.002" or 0.05mm.

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

[12] See 56100051 - MFG Fuel System Setup Guide

[13] Volume calculated using density of 0.717 kg/m3 for NG, 0.51 kg/L for LPG

40L

[Stoic.]
56100026 Rev: 7

PSI ENERGY

General Engine Data[5]										
Type	V-Series				Flywheel housing		SAE No.0			
Number of cylinders	12				Flywheel		SAE No.18			
Aspiration	Charged Cooled Forced Induction				Dry Weight (Fan to Flywheel)		lb	kg	7432	3371
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)		lb	kg	7894	3581
Rotation Viewed from Flywheel	Counter Clockwise				CG From Outer Flywheel Housing		in	mm	37.5	952
Bore	in	mm	5.906	150	CG Above Crank Centerline		in	mm	8	211
Stroke	in	mm	7.283	185	Oil Specification		SAE 15W-40 Low Ash Gas engine oil Ash content 0.25 - 0.5% by weight			
Displacement	in^3	L	2392	39.2	Engine Oil Capacity[8]	Min	qts	L	126.8	120.0
Compression Ratio	10.5 : 1					Max	qts	L	154.3	146.0
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning[6]		psi	bar	57	3.9
Turbo Exhaust Outlet Pipe Size	in	mm	3.50	89	ECU Oil Pressure Shut Down[6]		psi	bar	47	3.2
Catalyst Inlet Size	in	mm	5.00	124	Oil Pressure at 1000 RPM (Idle)	Min	psi	bar	60	4.1
Catalyst Dp	in-H_2O	kPa	33	8.3		Max	psi	bar	82	5.7
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.8	13	Max Allowable Oil Temperature		°F	°C	250	121
Maximum Fuel System Pressure	psi	kPag	29	200	Coolant Capacity (Engine only)		gal	L	20.1	76
Maximum Operating pressure to MFG	in-H_2O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	25.3	96
Minimum Operating pressure to MFG	in-H_2O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1289	586
Minimum Gas Supply Pipe Size [5,12]	in	mm	3	76	Thermostat Operating Temperature Range[9]	Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC	psi	kPa	2.2	15.0		Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction (Clean Air Filter)	in-H_2O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
Maximum Allowable Intake Restriction (Dirty Air Filter)	in-H_2O	kPa	15.0	3.7	ECU Coolant Temp Shutdown		°F	°C	230	110
Spark Plug Part Number	Denso GK3-5				Maximum Radiator Cooling Air Temp		°F	°C	140	60
Standard Spark Plug Gap[10]	in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60
Spark Plug Coil - Primary Resistance	Ohms		0.59Ω ± 10%		CAC Rise Above Ambient Specified		F	C	15	8.3
Battery Voltage	Volts		24							
Starter Motor Power	HP	kW	13.4	10						

Performance Data 50Hz[3,5]										
Nominal Engine Speed	RPM		1500		Total Engine Coolant Flow		gal/min	L/min	379	1436
Mean Piston Speed	ft/min	m/s	1821	9.3	Cooling Fan Power[11]		HP	kW	31.0	23
RPM Range (Min-Max) ISO 8528-5 G1	RPM		1477 - 1519		Cooling Fan Speed		RPM		1005	
Charging Alternator Voltage	Volts		28		Cooling Fan Air Flow[11]		SCFM	m^3/min	43100	1220
Charging Alternator Current	Amps		53							

LPG 50hz Standby	Load		100%		75%		50%		25%	
Power Rating[1,2,3,4] Per ISO 3046	HP	kWm	653	487	490	365	327	244	164	122
Mean Effective Pressure	psi	bar	144	9.9	108	7.5	72	5.0	36	2.5
Fuel Consumption[3,4,7,13]	lb/hr	kg/hr	265	120	203	92	147	67	98	44
	gal/hr	L/hr	62	235	48	181	35	131	23	87
BSFC	lb/(hp-hr)	g/(kW-hr)	0.405	246	0.415	252	0.450	274	0.595	362
Turbine Outlet Temperature	°F	°C	1172	633	1134	612	1080	582	1009	543
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	4366	1980	3374	1531	2459	1115	1625	737
	ACFM	m^3/min	2947	83	2233	63	1580	45	1004	28
Air Induction System[5]										
Combustion Air required (entire engine)	lb/hr	kg/hr	4102	1860	3171	1438	2312	1049	1527	693
	ACFM	m^3/min	894	25	691	20	504	14	333	9
Compressor Outlet Temperature[2]	°F	°C	240	115	190	88	142	61	109	43
Thermal Balance[5]										
Total Fuel	BTU/min	kW	89959	1582	69000	1213	50048	880	33194	584
Mechanical Power	BTU/min	kW	27695	487	20771	365	13848	244	6964	122
Heat Rejected to Cooling Water	BTU/min	kW	23125	407	19068	335	15010	264	10975	193
Heat Rejected to CAC	BTU/min	kW	2796	49	1510	27	651	11	219	4
Heat Rejected to Exhaust (LHV to 150C)	BTU/min	kW	21662	381	16762	295	11755	207	6673	117
Engine Radiated Heat	BTU/min	kW	14681	258	10889	191	8785	154	8364	147

[1] Max load and overload ratings based on ISO 3046 gross flywheel power. For additional information on ratings and duty cycles see PSI Energy 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 Energy Technical Spec. 56100019 - Fuel Standard.

[8] Standard Sump Capacity.

[9] ± 2 degrees Celsius.

[10] ± 0.002" or 0.05mm.

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

[12] See 56100051 - MFG Fuel System Setup Guide

[13] Volume calculated using density of 0.717 kg/m3 for NG, 0.51 kg/L for LPG