

31.8L



ENERGY

[Stoic.]
56100023 Rev: 2

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	6888	3124									
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)				lb	kg	7384	3349									
Rotation Viewed from Flywheel	Counter Clockwise				CG From Rear Face of Block				in	mm	37.0	941									
Bore	in	mm	5.906	150	CG Above Crank Centerline				in	mm	0	0									
Stroke	in	mm	5.906	150	Oil Specification				SAE 15W-40 Low Ash Gas engine oil (.25-.5% by wt), API CD/CF or higher												
Displacement	in ³	L	1941	31.8	Engine Oil Capacity ⁸				Min	qts	L	95	90								
Compression Ratio	10.5 : 1				Max				qts	L	129	122									
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning ⁶				psi	kPa	57	393									
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89	ECU Oil Pressure Shut Down ⁶				psi	kPa	47	324									
Catalyst Inlet Size	in	mm	5	127	Oil Pressure at 1000 rpm (Idle)				Min	psi	kPa	74	510								
Catalyst Dp	in-H ₂ O	kPa	20.5	5.1	Max				psi	kPa	82	565									
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.0	10.2	Max Allowable Oil Temperature				°F	°C	250	121									
Maximum EPR Rated Pressure	psi	kPa	1.0	6.9	Coolant Capacity (Engine only)				gal	L	29.1	110.0									
Maximum Operating pressure to EPR	in-H ₂ O	kPa	11.0	2.7	Coolant Capacity (Radiator only)				gal	L	39.0	147.6									
Minimum Operating pressure to EPR	in-H ₂ O	kPa	7.0	1.7	Radiator Weight (Dry)				lb	kg	1275	578									
Minimum Gas Supply Pipe Size ⁵	in	mm	3	76	Standard Thermostat Range				Normal Operation Temperature ⁹			°F	°C	176	80						
Maximum Pressure Drop Across CAC	psi	kPa	1	6.9	Clean Air Filter				in-H ₂ O	kPa	5	1.24	Full Open Temperature ⁹			°F	°C	198	92		
Max Allowable Intake Restriction	Dirty Air Filter				in-H ₂ O	kPa	15	3.73	ECU Coolant Temp Warning				°F	°C	203	95					
Spark Plug Part Number	Denso GK3-5				Spark Plug Coil - Primary Resistance				Ohms			0.59Ω ± 10%			ECU Coolant Temp Shutdown			°F	°C	208	98
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	Battery Voltage				Volts			24			50°C Ambient Capable ¹¹			Pass			
Battery Voltage	24				Starter Motor Power				HP	kW	15.7	11.7	Max External Coolant Friction Head				psi	kPa	7.25	50	
Starter Motor Power	HP	kW	15.7	11.7	CAC Rise Above Ambient Specified				F	C	15	9									

Performance Data 60Hz ^{3,5}																
Nominal Engine Speed	RPM				1800				Water Pump Speed		RPM		3705			
Mean Piston Speed	ft/min	m/s	1772	9.0	Engine Coolant Flow				gal/min	L/min	361	1368				
RPM Range (Min-Max) ISO 8528-5 G1	RPM				1778 - 1823				Cooling Fan Power ¹¹				HP	kW	62.8	47
Charging Alternator Voltage	Volts				28				Cooling Fan Speed				RPM		1050	
Charging Alternator Current	Amps				55				Cooling Fan Air Flow ¹¹				SCFM	m ³ /min	65100	1843

NG 60hz Prime Load	Load		100%		75%		50%		25%	
	Power Rating ^{1,2,3,4} Per ISO 3046	HP	kWm	821	612	616	459	410	306	206
MEP (@ rated Load on NG)	psi	bar	186	12.8	140	9.6	93	6.4	47	3.2
Fuel Consumption ^{3,4,7}	lb/hr	kg/hr	310	141	242	110	178	81	109	50
BSFC	lb/(hp-hr)	g/(kW-hr)	0.378	230	0.393	239	0.435	265	0.530	323
Turbine Outlet Temperature	°F	°C	1138	615	1084	585	1040	560	999	537
Exhaust Mass Flow (entire engine)	lb/hr	kg/hr	5472	2482	4323	1961	3175	1440	2030	921
Exhaust Flow at Turbine Outlet Conditions	ACFM	m ³ /min	3220	91	2409	68	1683	48	1046	30

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	5162	2341	4082	1851	2997	1359	1920	871
Combustion Air Volume Required (entire engine)	ACFM	m ³ /min	1125	32	890	25	653	18	419	12
Compressor Outlet Temperature ²	°F	°C	260	127	236	113	187	86	132	55

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	106753	1877	83790	1473	61277	1078	39049	687
Mechanical Power	BTU/min	kW	34804	612	26103	459	17402	306	8751	154
Heat Rejected to Cooling Water at Rated Load	BTU/min	kW	29142	512	24385	429	19593	345	14160	249
Heat Rejection CAC at Rated Power	BTU/min	kW	3229	57	2075	36	1120	20	352	6
Heat Rejection to Exhaust (LHV to 150C)	BTU/min	kW	22577	397	16594	292	11314	199	6578	116
Engine Radiated Heat	BTU/min	kW	17001	299	14634	257	11849	208	9207	162

¹ Standby and overload ratings based on ISO 3046 gross flywheel power.

² Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute 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 Energy Technical Spec. 56300019 - 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.

31.8L



ENERGY

[Stoic.]
56100023 Rev: 2

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	6888 3124	
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)			lb	kg	7384 3349	
Rotation Viewed from Flywheel	Counter Clockwise				CG From Rear Face of Block			in	mm	37.0 941	
Bore	in	mm	5.906	150	CG Above Crank Centerline			in	mm	0 0	
Stroke	in	mm	5.906	150	Oil Specification			SAE 15W-40 Low Ash Gas engine oil (.25-.5% by wt), API CD/CF or higher			
Displacement	in ³	L	1941	31.8	Engine Oil Capacity ⁸			Min	qts	L	95 90
Compression Ratio	10.5 : 1				Max			qts	L	129 122	
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning ⁶			psi	kPa	57 393	
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89	ECU Oil Pressure Shut Down ⁶			psi	kPa	47 324	
Catalyst Inlet Size	in	mm	5	127	Oil Pressure at 1000 rpm (Idle)			Min	psi	kPa	74 510
Catalyst Dp	in-H ₂ O	kPa	20.5	5.1	Max			psi	kPa	82 565	
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.0	10.2	Max Allowable Oil Temperature			°F	°C	250 121	
Maximum EPR Rated Pressure	psi	kPa	1.0	6.9	Coolant Capacity (Engine only)			gal	L	29.1 110.0	
Maximum Operating pressure to EPR	in-H ₂ O	kPa	11.0	2.7	Coolant Capacity (Radiator only)			gal	L	39.0 147.6	
Minimum Operating pressure to EPR	in-H ₂ O	kPa	7.0	1.7	Radiator Weight (Dry)			lb	kg	1275 578	
Minimum Gas Supply Pipe Size ⁵	in	mm	3	76	Standard Thermostat Range			Normal Operation Temperature ⁹			
Maximum Pressure Drop Across CAC	psi	kPa	1	6.9	50°C Ambient Capable ¹¹			Pass			
Max Allowable Intake Restriction					Max External Coolant Friction Head			psi	kPa	7.25 50	
Clean Air Filter	in-H ₂ O	kPa	5	1.24	CAC Rise Above Ambient Specified			F	C	15 9	
Dirty Air Filter	in-H ₂ O	kPa	15	3.73							
Spark Plug Part Number	Denso GK3-5										
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3							
Spark Plug Coil - Primary Resistance	Ohms 0.59Ω ± 10%										
Battery Voltage	Volts 24										
Starter Motor Power	HP	kW	15.7	11.7							

Performance Data 50Hz ^{3,5}										
Nominal Engine Speed	RPM 1500				Water Pump Speed			RPM 3088		
Mean Piston Speed	ft/min	m/s	1476	7.5	Engine Coolant Flow			gal/min	L/min	297 1126
RPM Range (Min-Max) ISO 8528-5 G1	RPM 1477 - 1519				Cooling Fan Power ¹¹			HP	kW	36.4 27
Charging Alternator Voltage	Volts 28				Cooling Fan Speed			RPM 875		
Charging Alternator Current	Amps 53				Cooling Fan Air Flow ¹¹			SCFM	m ³ /min	54200 1535

NG 50hz Prime Load	Load		100%		75%		50%		25%	
	HP	kWm	684	510	513	383	342	255	172	128
Power Rating ^{1,2,3,4} Per ISO 3046	psi	bar	186	12.8	140	9.6	93	6.4	47	3.2
MEP (@ rated Load on NG)	lb/hr	kg/hr	252	114	197	89	147	67	90	41
Fuel Consumption ^{3,4,7}	lb/(hp-hr)	g/(kW-hr)	0.369	224	0.383	233	0.429	261	0.523	318
BSFC	°F	°C	1048	564	1015	546	972	522	899	481
Turbine Outlet Temperature	lb/hr	kg/hr	4234	1921	3344	1517	2459	1116	1573	713
Exhaust Mass Flow (entire engine)	ACFM	m ³ /min	2432	69	1865	53	1330	38	830	23
Exhaust Flow at Turbine Outlet Conditions										

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	3982	1806	3147	1428	2313	1049	1483	673
Combustion Air Volume Required (entire engine)	ACFM	m ³ /min	868	25	686	19	504	14	323	9
Compressor Outlet Temperature ²	°F	°C	239	115	201	94	156	69	119	48

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	86712	1525	68302	1201	49891	877	31587	555
Mechanical Power	BTU/min	kW	29003	510	21752	383	14502	255	7293	128
Heat Rejected to Cooling Water at Rated Load	BTU/min	kW	24848	437	21229	373	17150	302	12640	222
Heat Rejection CAC at Rated Power	BTU/min	kW	2517	44	1502	26	631	11	220	4
Heat Rejection to Exhaust (LHV to 150C)	BTU/min	kW	15628	275	11716	206	7959	140	4527	80
Engine Radiated Heat	BTU/min	kW	14715	259	12104	213	9650	170	6908	121

¹ Standby and overload ratings based on ISO 3046 gross flywheel power.
² Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute 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 Energy Technical Spec. 56300019 - 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.

31.8L



ENERGY

[Stoic.]
56100023 Rev: 2

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	6888	3124				
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)				lb	kg	7384	3349				
Rotation Viewed from Flywheel	Counter Clockwise				CG From Rear Face of Block				in	mm	37.0	941				
Bore	in	mm	5.906	150	CG Above Crank Centerline				in	mm	0	0				
Stroke	in	mm	5.906	150	Oil Specification				SAE 15W-40 Low Ash Gas engine oil (.25-.5% by wt), API CD/CF or higher							
Displacement	in ³	L	1941	31.8	Engine Oil Capacity ⁸				Min	qts	L	95	90			
Compression Ratio	10.5 : 1				Max				qts	L	129	122				
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning ⁶				psi	kPa	57	393				
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89	ECU Oil Pressure Shut Down ⁶				psi	kPa	47	324				
Catalyst Inlet Size	in	mm	5	127	Oil Pressure at 1000 rpm (Idle)				Min	psi	kPa	74	510			
Catalyst Dp	in-H ₂ O	kPa	20.5	5.1	Max				psi	kPa	82	565				
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.0	10.2	Max Allowable Oil Temperature				°F	°C	250	121				
Maximum EPR Rated Pressure	psi	kPa	1.0	6.9	Coolant Capacity (Engine only)				gal	L	29.1	110.0				
Maximum Operating pressure to EPR	in-H ₂ O	kPa	11.0	2.7	Coolant Capacity (Radiator only)				gal	L	39.0	147.6				
Minimum Operating pressure to EPR	in-H ₂ O	kPa	7.0	1.7	Radiator Weight (Dry)				lb	kg	1275	578				
Minimum Gas Supply Pipe Size ⁵	in	mm	3	76	Standard Thermostat Range				Normal Operation Temperature ⁹			°F	°C	176	80	
Maximum Pressure Drop Across CAC	psi	kPa	1	6.9	50°C Ambient Capable ¹¹				Pass							
Max Allowable Intake Restriction	Clean Air Filter				in-H ₂ O	kPa	5	1.24	Full Open Temperature ⁹				°F	°C	198	92
	Dirty Air Filter				in-H ₂ O	kPa	15	3.73	ECU Coolant Temp Warning				°F	°C	203	95
Spark Plug Part Number	Denso GK3-5				ECU Coolant Temp Shutdown				°F	°C	208	98				
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	Max External Coolant Friction Head				psi	kPa	7.25	50				
Spark Plug Coil - Primary Resistance	Ohms				CAC Rise Above Ambient Specified				F	C	15	9				
Battery Voltage	Volts				24											
Starter Motor Power	HP	kW	15.7	11.7												

Performance Data 60Hz ^{3,5}																
Nominal Engine Speed	RPM				1800				Water Pump Speed			RPM		3705		
Mean Piston Speed	ft/min	m/s	1772	9.0	Engine Coolant Flow				gal/min	L/min	361	1368				
RPM Range (Min-Max) ISO 8528-5 G1	RPM				1778 - 1823				Cooling Fan Power ¹¹				HP	kW	62.8	47
Charging Alternator Voltage	Volts				28				Cooling Fan Speed				RPM		1050	
Charging Alternator Current	Amps				55				Cooling Fan Air Flow ¹¹				SCFM	m ³ /min	65100	1843

LPG 60hz Prime Load	Load		100%		75%		50%		25%	
	Power Rating ^{1,2,3,4} Per ISO 3046	HP	kWm	541	403.75	406	303	271	202	136
MEP (@ rated Load on NG)	psi	bar	123	8.5	92	6.3	61	4.2	31	2.1
Fuel Consumption ^{3,4,7}	lb/hr	kg/hr	237	107	197	89	131	59	106	48
BSFC	lb/(hp-hr)	g/(kW-hr)	0.437	266	0.485	295	0.482	293	0.777	473
Turbine Outlet Temperature	°F	°C	1147	619	1089	587	1036	558	955	513
Exhaust Mass Flow (entire engine)	lb/hr	kg/hr	4061	1842	3113	1412	2280	1034	1636	742
Exhaust Flow at Turbine Outlet Conditions	ACFM	m ³ /min	2508	71	1843	52	1287	36	843	24

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	3824	1735	2916	1323	2150	975	1530	694
Combustion Air Volume Required (entire engine)	ACFM	m ³ /min	833	24	635	18	469	13	333	9
Compressor Outlet Temperature ²	°F	°C	239	115	194	90	149	65	119	48

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	81653	1436	62332	1096	45795	805	32844	578
Mechanical Power	BTU/min	kW	22961	404	17221	303	11480	202	5773	102
Heat Rejected to Cooling Water at Rated Load	BTU/min	kW	27785	489	23401	411	18526	326	13540	238
Heat Rejection CAC at Rated Power	BTU/min	kW	2398	42	1314	23	551	10	199	4
Heat Rejection to Exhaust (LHV to 150C)	BTU/min	kW	17220	303	12166	214	8387	147	5011	88
Engine Radiated Heat	BTU/min	kW	11290	199	8230	145	6850	120	8321	146

¹ Standby and overload ratings based on ISO 3046 gross flywheel power.

² Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute 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 LPG 46.38 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. 56300019 - 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.

31.8L



ENERGY

[Stoic.]
56100023 Rev: 2

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	6888	3124									
Firing Order	1 - 8 - 5 - 10 - 3 - 7 - 6 - 11 - 2 - 9 - 4 - 12				Wet Weight (Fan to Flywheel)				lb	kg	7384	3349									
Rotation Viewed from Flywheel	Counter Clockwise				CG From Rear Face of Block				in	mm	37.0	941									
Bore	in	mm	5.906	150	CG Above Crank Centerline				in	mm	0	0									
Stroke	in	mm	5.906	150	Oil Specification				SAE 15W-40 Low Ash Gas engine oil (.25-.5% by wt), API CD/CF or higher												
Displacement	in ³	L	1941	31.8	Engine Oil Capacity ⁸				Min	qts	L	95	90								
Compression Ratio	10.5 : 1				Max				qts	L	129	122									
Exhaust Manifold Type	Water Cooled				ECU Oil Pressure Warning ⁶				psi	kPa	57	393									
Turbo Exhaust Outlet Pipe Size	in	mm	3.5	89	ECU Oil Pressure Shut Down ⁶				psi	kPa	47	324									
Catalyst Inlet Size	in	mm	5	127	Oil Pressure at 1000 rpm (Idle)				Min	psi	kPa	74	510								
Catalyst Dp	in-H ₂ O	kPa	20.5	5.1	Max				psi	kPa	82	565									
Maximum Allowable Exhaust Back Pressure	in-Hg	kPa	3.0	10.2	Max Allowable Oil Temperature				°F	°C	250	121									
Maximum EPR Rated Pressure	psi	kPa	1.0	6.9	Coolant Capacity (Engine only)				gal	L	29.1	110.0									
Maximum Operating pressure to EPR	in-H ₂ O	kPa	11.0	2.7	Coolant Capacity (Radiator only)				gal	L	39.0	147.6									
Minimum Operating pressure to EPR	in-H ₂ O	kPa	7.0	1.7	Radiator Weight (Dry)				lb	kg	1275	578									
Minimum Gas Supply Pipe Size ⁵	in	mm	3	76	Standard Thermostat Range				Normal Operation Temperature ⁹			°F	°C	176	80						
Maximum Pressure Drop Across CAC	psi	kPa	1	6.9	Clean Air Filter				in-H ₂ O	kPa	5	1.24	Full Open Temperature ⁹			°F	°C	198	92		
Max Allowable Intake Restriction	Dirty Air Filter				in-H ₂ O	kPa	15	3.73	ECU Coolant Temp Warning				°F	°C	203	95					
Spark Plug Part Number	Denso GK3-5				Spark Plug Coil - Primary Resistance				Ohms			0.59Ω ± 10%			ECU Coolant Temp Shutdown			°F	°C	208	98
Standard Spark Plug Gap ¹⁰	in	mm	0.012	0.3	Battery Voltage				Volts			24			50°C Ambient Capable ¹¹			Pass			
Battery Voltage	24				Starter Motor Power				HP	kW	15.7	11.7	Max External Coolant Friction Head				psi	kPa	7.25	50	
Starter Motor Power	HP	kW	15.7	11.7	CAC Rise Above Ambient Specified				F	C	15	9									

Performance Data 50Hz ^{3,5}																
Nominal Engine Speed	RPM				1500				Water Pump Speed		RPM		3088			
Mean Piston Speed	ft/min	m/s	1476	7.5	Engine Coolant Flow				gal/min	L/min	297	1126				
RPM Range (Min-Max) ISO 8528-5 G1	RPM				1477 - 1519				Cooling Fan Power ¹¹				HP	kW	36.4	27
Charging Alternator Voltage	Volts				28				Cooling Fan Speed				RPM		875	
Charging Alternator Current	Amps				53				Cooling Fan Air Flow ¹¹				SCFM	m ³ /min	54200	1535

LPG 50hz Prime Load	Load		100%		75%		50%		25%	
	HP	kWm	462	344.25	346	258	231	172	116	87
Power Rating ^{1,2,3,4} Per ISO 3046	psi	bar	126	8.7	94	6.5	63	4.3	32	2.2
MEP (@ rated Load on NG)	lb/hr	kg/hr	195	88	159	72	113	51	83	38
Fuel Consumption ^{3,4,7}	lb/(hp-hr)	g/(kW-hr)	0.422	256	0.459	279	0.489	298	0.714	435
BSFC	°F	°C	1106	597	1052	566	1004	540	930	499
Turbine Outlet Temperature	lb/hr	kg/hr	3292	1493	2509	1138	1892	858	1340	608
Exhaust Mass Flow (entire engine)	ACFM	m ³ /min	2005	57	1463	41	1018	29	671	19
Exhaust Flow at Turbine Outlet Conditions										

Air Induction System ⁵										
Combustion Air required (entire engine)	lb/hr	kg/hr	3098	1405	2350	1066	1779	807	1257	570
Combustion Air Volume Required (entire engine)	ACFM	m ³ /min	675	19	512	15	388	11	274	8
Compressor Outlet Temperature ²	°F	°C	206	97	166	74	134	57	110	43

Thermal Balance ⁵										
Total Fuel	BTU/min	kW	66171	1164	50331	885	38014	668	26709	470
Mechanical Power	BTU/min	kW	19577	344	14683	258	9789	172	4923	87
Heat Rejected to Cooling Water at Rated Load	BTU/min	kW	22124	389	18727	329	15525	273	11914	209
Heat Rejection CAC at Rated Power	BTU/min	kW	1533	27	779	14	361	6	113	2
Heat Rejection to Exhaust (LHV to 150C)	BTU/min	kW	13111	231	9339	164	6593	116	3971	70
Engine Radiated Heat	BTU/min	kW	9827	173	6803	120	5746	101	5788	102

¹ Standby and overload ratings based on ISO 3046 gross flywheel power.

² Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute 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 LPG 46.38 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. 56300019 - 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.