

General Engine Data<sup>1</sup>

Type		V-Series				Flywheel housing		SAE No.0				
Number of cylinders		16				Flywheel		SAE No.18				
Aspiration		Charged 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				Wet Weight (Fan to Flywheel)		lb	kg	12693	5757	
Rotation Viewed from Flywheel		Counter Clockwise				CG From Rear Face of Block		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 <sup>3</sup>	L	3192	52.3			Engine Oil Capacity <sup>8</sup>		Min	qts	L
Compression Ratio		10.5 : 1				Max		qts	L	180.7	171.0	
Exhaust Manifold Type		Water Cooled				ECU Oil Pressure Warning <sup>6</sup>		psi	bar	57	3.93	
Turbo Exhaust Outlet Pipe Size		in	mm	3.50	89	ECU Oil Pressure Shut Down <sup>6</sup>		psi	bar	47	3	
Catalyst Inlet Size (O.D)		in	mm	6.00	152.4	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4
Catalyst Dp		in-H <sub>2</sub> O	kPa	33	8.3			Max	psi	bar	82	6
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	26.4	100	
Maximum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	39.0	148	
Minimum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1500	680	
Minimum Gas Supply Pipe Size <sup>5</sup>		in	mm	3	76	Thermostat Operating Temperature Range <sup>9</sup>		Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC		psi	kPa	1.5	10.3			Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction	Clean Air Filter	in-H <sub>2</sub> O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104	
	Dirty Air Filter	in-H <sub>2</sub> O	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 <sup>10</sup>		in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60	
Spark Plug Coil - Primary Resistance		Ohms				CAC Rise Above Ambient Specified		F	C	15	8	
Battery Voltage		Volts										
Starter Motor Power (2X Starters)		HP	kW	13.4	10							

Performance Data 60Hz<sup>3,5</sup>

Nominal Engine Speed		RPM		1800		Total Engine Coolant Flow		gal/min	L/min	600	2274
Mean Piston Speed		ft/min	m/s	2185	11.1	Cooling Fan Power <sup>11</sup>		HP	kW	107	80
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 <sup>11</sup>		SCFM	m <sup>3</sup> /min	67300	1906
Charging Alternator Current		Amps		55							

NG 60hz Standby	Load		100%		75%		50%		25%	
	Power Rating <sup>1,2,3,4</sup> Per ISO 3046	HP	kWm	1589	1185	1192	889	795	593	397
Mean Effective Pressure	psi	bar	219	15.1	164	11.3	110	7.6	55	3.8
Fuel Consumption <sup>3,4,7,13</sup>	lb/hr	kg/hr	565	256	435	197	311	141	193	88
	ft <sup>3</sup> /hr	m <sup>3</sup> /hr	12626	358	9721	275	6949	197	4312	122
BSFC	lb/(hp-hr)	g/(kW-hr)	0.356	216	0.365	222	0.391	238	0.486	296
Turbine Outlet Temperature	°F	°C	1212	655	1187	642	1171	633	1133	612
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	9946	4512	7653	3471	5461	2477	3371	1529
	ACFM	m <sup>3</sup> /min	6855	194	5207	147	3685	104	2230	63

Air Induction System<sup>5</sup>

Combustion Air required (entire engine)	lb/hr	kg/hr	9381	4255	7217	3274	5150	2336	3178	1441
	ACFM	m <sup>3</sup> /min	2205	62	1696	48	1210	34	747	21
Compressor Outlet Temperature <sup>2</sup>	°F	°C	309	154	253	123	309	154	309	154

Thermal Balance<sup>5</sup>

Total Fuel	BTU/min	kW	192296	3381	148044	2603	105834	1861	65667	1155
Mechanical Power	BTU/min	kW	67390	1185	50542	889	33695	593	16847	296
Heat Rejected to Cooling Water	BTU/min	kW	51593	907	42945	755	34297	603	25649	451
Heat Rejected to CAC	BTU/min	kW	8923	157	5259	92	2212	39	412	7
Heat Rejection to Exhaust	BTU/min	kW	59975	1055	45184	795	31289	550	18290	322
Engine Radiated Heat	BTU/min	kW	4416	78	4114	72	4342	76	4470	79

<sup>1</sup> Standby and overload ratings based on ISO 3046 gross flywheel power.<sup>2</sup> Technical data based on ISO 3046-1 standards of 77°F (25°C), absolute pressure 14.5Psia(100kPa) and 30% relative humidity.<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> All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.<sup>5</sup> All values in the following section are provided for informational purpose only and are non-binding.<sup>6</sup> >1400RPM.<sup>7</sup> See PSI Energy Technical Spec. 56300019 - Fuel Standard.<sup>8</sup> Standard Sump Capacity.<sup>9</sup> ± 2 degrees Celsius.<sup>10</sup> ± 0.002" or 0.05mm.<sup>11</sup> At 0.5 in-H<sub>2</sub>O of Package Restriction at STP.<sup>12</sup> See 56100051 - MFG Fuel System Setup Guide<sup>13</sup> Volume calculated using density of 0.717 kg/m<sup>3</sup> for NG, 0.51 kg/L for LPG

General Engine Data<sup>1</sup>

Type		V-Series				Flywheel housing		SAE No.0				
Number of cylinders		16				Flywheel		SAE No.18				
Aspiration		Charged 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				Wet Weight (Fan to Flywheel)		lb	kg	12693	5757	
Rotation Viewed from Flywheel		Counter Clockwise				CG From Rear Face of Block		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 <sup>3</sup>	L	3192	52.3			Engine Oil Capacity <sup>8</sup>		Min	qts	L
Compression Ratio		10.5 : 1				Max	qts			L	180.7	171.0
Exhaust Manifold Type		Water Cooled				ECU Oil Pressure Warning <sup>6</sup>		psi	bar	57	3.93	
Turbo Exhaust Outlet Pipe Size		in	mm	3.50	89	ECU Oil Pressure Shut Down <sup>6</sup>		psi	bar	47	3	
Catalyst Inlet Size (O.D)		in	mm	6.00	152.4	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4
Catalyst Dp		in-H <sub>2</sub> O	kPa	33	8.3			Max	psi	bar	82	6
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	26.4	100	
Maximum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	39.0	148	
Minimum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1500	680	
Minimum Gas Supply Pipe Size <sup>5</sup>		in	mm	3	76	Thermostat Operating Temperature Range <sup>9</sup>		Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC		psi	kPa	1.5	10.3			Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction		Clean Air Filter	in-H <sub>2</sub> O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
		Dirty Air Filter	in-H <sub>2</sub> O	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 <sup>10</sup>		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	
Battery Voltage		Volts 24										
Starter Motor Power (2X Starters)		HP	kW	13.4	10							

Performance Data 50Hz<sup>3,5</sup>

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 <sup>11</sup>		HP	kW	62	46
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 <sup>11</sup>		SCFM	m <sup>3</sup> /min	56083	1588
Charging Alternator Current		Amps		53							

NG 50hz Standby	Load		100%		75%		50%		25%	
	Power Rating <sup>1,2,3,4</sup> Per ISO 3046	HP	kWm	1324	987	993	740	662	494	331
Mean Effective Pressure	psi	bar	219	15.1	164	11.3	109	7.5	55	3.8
Fuel Consumption <sup>3,4,7,13</sup>	lb/hr	kg/hr	450	204	348	158	250	113	154	70
	ft <sup>3</sup> /hr	m <sup>3</sup> /hr	10059	285	7781	220	5574	158	3440	97
BSFC	lb/(hp-hr)	g/(kW-hr)	0.340	207	0.351	213	0.377	229	0.465	283
Turbine Outlet Temperature	°F	°C	1156	625	1144	618	1120	604	1059	571
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	7931	3598	6080	2758	4320	1959	2650	1202
	ACFM	m <sup>3</sup> /min	5311	150	4046	115	2837	80	1684	48

Air Induction System<sup>5</sup>

Combustion Air required (entire engine)	lb/hr	kg/hr	7481	3393	5732	2600	4070	1846	2496	1132
	ACFM	m <sup>3</sup> /min	1723	49	1320	37	938	27	575	16
Compressor Outlet Temperature <sup>2</sup>	°F	°C	328	165	272	133	202	95	135	57

Thermal Balance<sup>5</sup>

Total Fuel	BTU/min	kW	152884	2688	118249	2079	84717	1490	52287	919
Mechanical Power	BTU/min	kW	56130	987	42097	740	28065	494	14032	247
Heat Rejected to Cooling Water	BTU/min	kW	41594	731	34710	610	27827	489	20944	368
Heat Rejected to CAC	BTU/min	kW	5284	93	2756	48	1101	19	245	4
Heat Rejection to Exhaust	BTU/min	kW	44685	786	33587	591	23116	406	13273	233
Engine Radiated Heat	BTU/min	kW	5191	91	5099	90	4608	81	3793	67

<sup>1</sup> Standby and overload ratings based on ISO 3046 gross flywheel power.<sup>2</sup> Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute pressure 14.5Psia(100kPa) and 30% relative humidity.<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> All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.<sup>5</sup> All values in the following section are provided for informational purpose only and are non-binding.<sup>6</sup> >1400RPM.<sup>7</sup> See PSI Energy Technical Spec. 56300019 - Fuel Standard.<sup>8</sup> Standard Sump Capacity.<sup>9</sup> ± 2 degrees Celsius.<sup>10</sup> ± 0.002" or 0.05mm.<sup>11</sup> At 0.5 in-H<sub>2</sub>O of Package Restriction at STP.<sup>12</sup> See 56100051 - MFG Fuel System Setup Guide<sup>13</sup> Volume calculated using density of 0.717 kg/m<sup>3</sup> for NG, 0.51 kg/L for LPG

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Rev: 4

General Engine Data<sup>1</sup>

Type		V-Series				Flywheel housing		SAE No.0				
Number of cylinders		16				Flywheel		SAE No.18				
Aspiration		Charged 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				Wet Weight (Fan to Flywheel)		lb	kg	12693	5757	
Rotation Viewed from Flywheel		Counter Clockwise				CG From Rear Face of Block		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 <sup>3</sup>	L	3192	52.3			Engine Oil Capacity <sup>8</sup>		Min	qts	L
Compression Ratio		10.5 : 1				Max		qts	L	180.7	171.0	
Exhaust Manifold Type		Water Cooled				ECU Oil Pressure Warning <sup>6</sup>		psi	bar	57	3.93	
Turbo Exhaust Outlet Pipe Size		in	mm	3.50	89	ECU Oil Pressure Shut Down <sup>6</sup>		psi	bar	47	3	
Catalyst Inlet Size (O.D)		in	mm	6.00	152.4	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4
Catalyst Dp		in-H <sub>2</sub> O	kPa	33	8.3	Max		psi	bar	82	6	
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	26.4	100	
Maximum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	39.0	148	
Minimum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1500	680	
Minimum Gas Supply Pipe Size <sup>5</sup>		in	mm	3	76	Thermostat Operating Temperature Range <sup>9</sup>		Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC		psi	kPa	1.5	10.3	Full Open		°F	°C	198	92	
Maximum Allowable Intake Restriction	Clean Air Filter	in-H <sub>2</sub> O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104	
	Dirty Air Filter	in-H <sub>2</sub> O	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 <sup>10</sup>		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	
Battery Voltage		Volts 24										
Starter Motor Power (2X Starters)		HP	kW	13.4	10							

Performance Data 60Hz<sup>3,5</sup>

Nominal Engine Speed		RPM		1800		Engine Coolant Flow		gal/min	L/min	600	2274
Mean Piston Speed		ft/min	m/s	2185	11.1	Cooling Fan Power <sup>11</sup>		HP	kW	107	80
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 <sup>11</sup>		SCFM	m <sup>3</sup> /min	67300	1906
Charging Alternator Current		Amps		55							

LPG 60hz Standby	Load		100%		75%		50%		25%	
	Power Rating <sup>1,2,3,4</sup> Per ISO 3046	HP	kWm	1196	892	897	669	598	446	299
Mean Effective Pressure	psi	bar	165	11.4	124	8.5	82	5.7	41	2.8
Fuel Consumption <sup>3,4,7,13</sup>	lb/hr	kg/hr	496	225	371	168	261	118	166	75
	gal/hr	L/hr	117	442	87	330	61	232	39	148
BSFC	lb/(hp-hr)	g/(kW-hr)	0.415	252	0.414	252	0.436	265	0.555	337
Turbine Outlet Temperature	°F	°C	1317	714	1252	678	1182	639	1120	604
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	8245	3740	6126	2779	4280	1941	2707	1228
	ACFM	m <sup>3</sup> /min	6007	170	4313	122	2904	82	1777	50

Air Induction System<sup>5</sup>

Combustion Air required (entire engine)	lb/hr	kg/hr	7749	3515	5755	2611	4019	1823	2541	1152
	ACFM	m <sup>3</sup> /min	1779	50	1321	37	923	26	583	17
Compressor Outlet Temperature <sup>2</sup>	°F	°C	273	134	207	97	152	66	114	45

Thermal Balance<sup>5</sup>

Total Fuel	BTU/min	kW	167074	2938	124899	2196	87822	1544	55843	982
Mechanical Power	BTU/min	kW	50727	892	38045	669	25364	446	12682	223
Heat Rejected to Cooling Water	BTU/min	kW	48746	857	41120	723	33495	589	25870	455
Heat Rejected to CAC	BTU/min	kW	6213	109	2893	51	1015	18	196	3
Heat Rejection to Exhaust	BTU/min	kW	54192	953	37542	660	24222	426	14233	250
Engine Radiated Heat	BTU/min	kW	7196	127	5298	93	3726	66	2863	50

<sup>1</sup> Standby and overload ratings based on ISO 3046 gross flywheel power.<sup>2</sup> Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute pressure 14.5Psi(100kPa) and 30% relative humidity.<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> All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.<sup>5</sup> All values in the following section are provided for informational purpose only and are non-binding.<sup>6</sup> >1400RPM.<sup>7</sup> See PSI Energy Technical Spec. 56300019 - Fuel Standard.<sup>8</sup> Standard Sump Capacity.<sup>9</sup> ± 2 degrees Celsius.<sup>10</sup> ± 0.002" or 0.05mm.<sup>11</sup> At 0.5 in-H<sub>2</sub>O of Package Restriction at STP.<sup>12</sup> See 56100051 - MFG Fuel System Setup Guide<sup>13</sup> Volume calculated using density of 0.717 kg/m<sup>3</sup> for NG, 0.51 kg/L for LPG

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Aspiration		Charged 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				Wet Weight (Fan to Flywheel)		lb	kg	12693	5757	
Rotation Viewed from Flywheel		Counter Clockwise				CG From Rear Face of Block		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 <sup>3</sup>	L	3192	52.3			Engine Oil Capacity <sup>8</sup>		Min	qts	L
Compression Ratio		10.5 : 1				Max	qts			L	180.7	171.0
Exhaust Manifold Type		Water Cooled				ECU Oil Pressure Warning <sup>6</sup>		psi	bar	57	3.93	
Turbo Exhaust Outlet Pipe Size		in	mm	3.50	89	ECU Oil Pressure Shut Down <sup>6</sup>		psi	bar	47	3	
Catalyst Inlet Size (O.D)		in	mm	6.00	152.4	Oil Pressure at 1000 RPM (Idle)		Min	psi	bar	53	4
Catalyst Dp		in-H <sub>2</sub> O	kPa	33	8.3			Max	psi	bar	82	6
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	26.4	100	
Maximum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	11	2.7	Coolant Capacity (Radiator only)		gal	L	39.0	148	
Minimum Operating pressure to MFG		in-H <sub>2</sub> O	kPa	7	1.7	Radiator Weight (Dry)		lb	kg	1500	680	
Minimum Gas Supply Pipe Size <sup>5</sup>		in	mm	3	76	Thermostat Operating Temperature Range <sup>9</sup>		Cracking	°F	°C	176	80
Maximum Pressure Drop Across CAC		psi	kPa	1.5	10.3			Full Open	°F	°C	198	92
Maximum Allowable Intake Restriction		Clean Air Filter	in-H <sub>2</sub> O	kPa	5.2	1.3	ECU Coolant Temp Warning		°F	°C	220	104
		Dirty Air Filter	in-H <sub>2</sub> O	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 <sup>10</sup>		in	mm	0.012	0.3	Max External Coolant Friction Head		psi	kPa	9	60	
Spark Plug Coil - Primary Resistance		Ohms				CAC Rise Above Ambient Specified		F	C	15	8	
Battery Voltage		Volts										
Starter Motor Power (2X Starters)		HP	kW	13.4	10							

Performance Data 50Hz<sup>3,5</sup>

Nominal Engine Speed		RPM		1500		Engine Coolant Flow		gal/min	L/min	460	1743
Mean Piston Speed		ft/min	m/s	1821	9.3	Cooling Fan Power <sup>11</sup>		HP	kW	62	46
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 <sup>11</sup>		SCFM	m <sup>3</sup> /min	56083	1588
Charging Alternator Current		Amps		53							

LPG 50hz Standby	Load		100%		75%		50%		25%	
	Power Rating <sup>1,2,3,4</sup> Per ISO 3046	HP	kWm	998	744	748	558	499	372	251
Mean Effective Pressure	psi	bar	165	11.4	124	8.5	83	5.7	41	2.9
Fuel Consumption <sup>3,4,7,13</sup>	lb/hr	kg/hr	364	165	286	130	208	94	131	59
	gal/hr	L/hr	85	324	67	254	49	185	31	116
BSFC	lb/(hp-hr)	g/(kW-hr)	0.365	222	0.382	233	0.417	254	0.522	317
Turbine Outlet Temperature	°F	°C	1110	599	1060	571	1024	551	970	521
Exhaust Flow at Turbine Outlet Conditions (entire engine)	lb/hr	kg/hr	6330	2871	4790	2173	3379	1533	2106	955
	ACFM	m <sup>3</sup> /min	4135	117	3046	86	2106	60	1272	36

Air Induction System<sup>5</sup>

Combustion Air required (entire engine)	lb/hr	kg/hr	5966	2706	4504	2043	3171	1438	1975	896
	ACFM	m <sup>3</sup> /min	1359	38	1026	29	722	20	450	13
Compressor Outlet Temperature <sup>2</sup>	°F	°C	214	101	166	75	128	54	104	40

Thermal Balance<sup>5</sup>

Total Fuel	BTU/min	kW	128916	2267	98191	1727	69924	1230	44258	778
Mechanical Power	BTU/min	kW	42311	744	31733	558	21155	372	10639	187
Heat Rejected to Cooling Water	BTU/min	kW	37463	659	31157	548	24850	437	18580	327
Heat Rejected to CAC	BTU/min	kW	3189	56	1429	25	468	8	75	1
Heat Rejection to Exhaust	BTU/min	kW	38928	685	27267	479	17547	309	9807	172
Engine Radiated Heat	BTU/min	kW	7026	124	6605	116	5904	104	5156	91

<sup>1</sup> Standby and overload ratings based on ISO 3046 gross flywheel power.<sup>2</sup> Technical data based on ISO 3046-1 standards of 77°F(25°C), absolute pressure 14.5Psia(100kPa) and 30% relative humidity.<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> All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48.17 MJ/kg.<sup>5</sup> All values in the following section are provided for informational purpose only and are non-binding.<sup>6</sup> >1400RPM.<sup>7</sup> See PSI Energy Technical Spec. 56300019 - Fuel Standard.<sup>8</sup> Standard Sump Capacity.<sup>9</sup> ± 2 degrees Celsius.<sup>10</sup> ± 0.002" or 0.05mm.<sup>11</sup> At 0.5 in-H<sub>2</sub>O of Package Restriction at STP.<sup>12</sup> See 56100051 - MFG Fuel System Setup Guide<sup>13</sup> Volume calculated using density of 0.717 kg/m<sup>3</sup> for NG, 0.51 kg/L for LPG