



Built On A Legacy,
Focused On The Future



Lister Petter Product G Drive Engine Range Guide



SINCE 1865

LISTER PETTER

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SINCE 1865





Cooling		LIQUID										
Engine Series		Starlite Series										
Engine Model		SA423G1	SA427G1	SA430G1	SA432G1	SA435G1	SA441G1	SA441G2				
Minimum full-load speed (r/min)		1500										
Maximum full-load speed (r/min)		1800										
Number of cylinders L-in-line; H-horizontal		4L										
Bore		mm	85	90	95	98	98	98	105	105	105	
		in	3.3	3.5	3.7	3.9	3.9	3.9	4.1	4.1	4.1	
Stroke		mm	100	105	105	105	105	115	118	118	118	
		in	3.9	4.1	4.1	4.1	4.1	4.5	4.6	4.6	4.6	
Displacement		litres	2.3	2.7	3.0	3.2	3.2	3.5	4.1	4.1	4.1	
		in ³	138.5	164.8	183.1	195.3	195.3	213.6	250.2	250.2	250.2	
Governor		Electronic										
Injection		Direct										
Aspiration		Natural										
Starting: H-hand; R-Rope; E-electric (-) optional		Turbo										
Firing Order		Turbo, Intercooler										
Compression Ratio		Electric										
Max operating temp		1-3-4-2										
Sound Pressure Level at 1m dB(A)		18.0:1	18.5:1								18.0:1	
		52°C (122°F)										
		≤ 98										
Continuous		kW	16	22	27	32	39	49	59	64	64	
		PS	21.4	29.5	36.2	42.9	52.3	65.7	79.1	85.8	85.8	
1500 r/min, 50 Hz		kW	18	24	30	35	44	54	65	70	70	
Fuel Stop		PS	24.1	32.2	40.2	46.9	59.0	72.4	87.1	93.8	93.8	
1800 r/min, 60 Hz		kW	21	26	30	38	42	59	70	76	76	
Continuous		PS	28.1	34.8	40.2	50.9	56.3	79.1	93.8	101.8	101.8	
Fuel Stop		kW	23	29	33	42	46	65	77	83	83	
		PS	30.8	38.9	44.2	56.3	61.6	87.1	103.2	111.2	111.2	
Weight		kg	257	297	302	302	312	324	418	428	428	
		lb	565	653	664	664	686	713	920	942	942	
Length		mm	1116	1155	1155	1155	1155	1063	1233	1233	1233	
		in	43.5	45.0	45.0	45.0	45.0	41.5	48.1	48.1	48.1	
Width		mm	670	670	670	670	670	670	770	770	770	
		in	26.1	26.1	26.1	26.1	26.1	26.1	30.0	30.0	30.0	
Height		mm	800	845	845	845	845	945	988	988	988	
		in	31.2	33.0	33.0	33.0	33.0	36.9	38.5	38.5	38.5	

SA423G1

SA427G1

SA430G(SA432G1)

SA432G2

SA435G1

SA441G1/2



Cooling		AIR										LIQUID											
Engine Series		T Series										ALPHA SERIES											
Engine Model		TR1	TR2	TR3	LPW2	LPW3	LPW4	LPWT4	LPW2	LPW3	LPW4	LPW2	LPW3	LPW4	LPW2	LPW3	LPW4						
Minimum full-load speed (r/min)		1500										1500											
Maximum full-load speed (r/min)		1800										3600											
Number of cylinders L-in-line; H-horizontal		1L										3L											
Bore		mm	98.4										86.0										
		in	3.87										3.39										
Stroke		mm	101.6										80.0										
		in	4.00										3.15										
Displacement		litres	0.773	1.546										1.395									
		in ³	47.2	94.3										85.1									
Injection		Direct										Direct											
Aspiration		Natural										Natural											
Starting: H-hand; R-Rope; E-electric (-) optional		Hand (Electric)										Turbo											
Firing Order		1										1-2-3											
Compression Ratio		15.5:1										18.5:1											
Max operating temp		40°C (104°F)										52°C (122°F)											
Sound Pressure Level at 1m dB(A)		≤ 96										≤ 93											
		5.5										11.3											
Continuous		kW	7.4	14.8										16.8									
		PS	10.1	20.1										22.5									
1500 r/min, 50 Hz		kW	6.1	12.1										18.5									
Fuel Stop		PS	8.2	16.2										24.8									
1800 r/min, 60 Hz		kW	6.7	13.1										20.2									
Continuous		PS	9.0	17.6										27.1									
Fuel Stop		kW	7.4	14.4										22.2									
Fixed Speed Outputs to Builds ISO 3046		PS	9.9	19.3										29.8									
		kW	13.4	26.8										33.7									
Continuous		PS	18.0	35.9										45.2									
		kW	14.7	22.1										29.5									
Fuel Stop		PS	19.7	29.6										39.5									
Continuous		kW	12.7	19.1										25.4									
		PS	17.0	25.6										34.1									
Fuel Stop		kW	14.0	21.0										28.0									
Continuous		PS	18.8	28.1										37.5									
Weight		kg	153	185										230									
		lb	337	408										507									
Length		mm	444	571										698									
		in	17.5	22.5										27.5									
Width		mm	521	512										512									
		in	20.5	20.2										20.2									
Height		mm	683	647										685									
		in	26.9	25.5										27.0									

TR2

TR3

LPW3

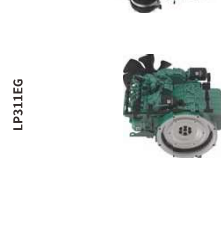
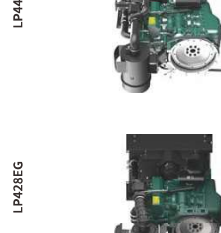
LPW4





Cooling		LIQUID																
Engine Series	Engine Model	Mercury Max series					Venus Max Series											
		LP11EG/LP128EG/LP128EG2/LP208EG3/LP438EG3/LP438EG4/LP438EG5/LP438EG6/LP695EG/LP695EG2/LP695EG3/LP695EG4/LP911EG3/3																
Minimum full-load speed (r/min)		1500																
Maximum full-load speed (r/min)		1800																
Number of cylinders (In-line, Horizontal)		3L	4L	6L														
Bore		mm	78	94	105	105	114	114	114	114	114							
		in	3.1	3.7	4.13	4.13	4.49	4.49	4.49	4.49	4.49							
Stroke		mm	78.4	100	124	124	114	114	114	114	114							
		in	3.1	3.9	4.88	4.88	4.49	4.49	4.49	4.49	4.49							
Displacement		litres	1.1	2.8	4.3	6.5	8.9	8.9	8.9	8.9	8.9							
		in ³	67.1	170.9	262.4	395.6	543.1	543.1	543.1	543.1	543.1							
Injection		BOSCH Common Rail with ECU																
Aspiration		Densio Common Rail with ECU																
Starting: Hydraulic, Electric, Electric (Optional)		Natural	Turbo & Intercooler		Turbo & Air to Air Intercooler													
Firing Order		1-3-4-2	1-3-4-2	1-3-4-2	1-3-4-2	1-5-3-6-4-2	1-5-3-6-4-2	1-5-3-6-4-2	1-5-3-6-4-2	1-5-3-6-4-2	1-5-3-6-4-2							
Compression Ratio		18:01	17:1.1	16:0.1	16:0.1	16:0.1	16:5.1	16:5.1	16:5.1	16:5.1	16:5.1							
Max operating temp		52°C (122°F)																
Sound Pressure Level at 1m dB(A)		≤ 96																
Continuous		kW	11	38	51	62	78	95	106	125	128	140	168	186	185	195	230	255
		PS	14.8	51.0	68.4	83.1	104.6	127.4	142.1	167.6	171.7	187.7	225.3	249.4	248.1	261.5	308.4	342.0
1500 r/min		kW	12	42	56	68	86	105	117	140	141	155	185	205	204	228	253	280
Power 50 Hz		Fuel Stop	PS	16.1	56.3	75.1	91.2	115.3	140.8	156.9	187.7	189.1	207.9	248.1	274.9	273.6	305.8	339.3
Fixed Speed Outputs to ISO		kW	13.2	/	/	/	86	105	120	125	136	150	180	186	205	235	255	280
1800 r/min		PS	17.7	/	/	/	115.3	140.8	160.9	167.6	182.4	201.2	241.4	249.4	274.9	315.1	342.0	375.5
60 Hz		kW	15	/	/	/	95	116	132	140	150	165	198	205	226	259	280	308
Fuel Stop		PS	20.1	/	/	/	127.4	155.6	177.0	187.7	201.2	221.3	265.5	274.9	303.1	347.3	375.5	413.0
Weight		kg	130	330	330	330	534	534	534	713	713	713	713	850	850	1024	1024	
		lb	286	726	726	726	1175	1175	1175	1569	1569	1569	1569	1870	1870	2253	2253	
Length		mm	810	1217	1217	1217	1056	1368	1368	1671	1671	1671	1671	1748	1748	1823	1823	
		in	31.6	47.5	47.5	47.5	41.2	53.4	53.4	65.2	65.2	65.2	65.2	68.2	68.2	71.1	71.1	
Width		mm	470	674	674	674	774	790	790	876	876	876	876	876	876	951	951	
		in	18.3	26.3	26.3	26.3	30.2	30.8	30.8	34.2	34.2	34.2	34.2	34.2	34.2	37.1	37.1	
Height		mm	708	940	940	940	1079	1084	1084	1213	1213	1213	1213	1225	1225	1366	1366	
		in	27.6	36.7	36.7	36.7	42.1	42.3	42.3	47.3	47.3	47.3	47.3	47.3	47.3	53.3	53.3	

Cooling		LIQUID																
Engine Series	Engine Model	Venus Max Series					Mars Max Series											
		LP12EG/LP12EG2/LP12EG3/LP13EG3/LP13EG4/LP13EG5/LP13EG6/LP13EG7/LP13EG8/LP13EG9/LP13EG10/LP13EG11/LP13EG12/LP13EG13/LP13EG14/LP13EG15/LP13EG16/LP13EG17/LP13EG18/LP13EG19/LP13EG20/LP13EG21/LP13EG22/LP13EG23/LP13EG24/LP13EG25/LP13EG26/LP13EG27/LP13EG28/LP13EG29/LP13EG30/LP13EG31/LP13EG32/LP13EG33/LP13EG34/LP13EG35/LP13EG36/LP13EG37/LP13EG38/LP13EG39/LP13EG40/LP13EG41/LP13EG42/LP13EG43/LP13EG44/LP13EG45/LP13EG46/LP13EG47/LP13EG48/LP13EG49/LP13EG50/LP13EG51/LP13EG52/LP13EG53/LP13EG54/LP13EG55/LP13EG56/LP13EG57/LP13EG58/LP13EG59/LP13EG60/LP13EG61/LP13EG62/LP13EG63/LP13EG64/LP13EG65/LP13EG66/LP13EG67/LP13EG68/LP13EG69/LP13EG70/LP13EG71/LP13EG72/LP13EG73/LP13EG74/LP13EG75/LP13EG76/LP13EG77/LP13EG78/LP13EG79/LP13EG80/LP13EG81/LP13EG82/LP13EG83/LP13EG84/LP13EG85/LP13EG86/LP13EG87/LP13EG88/LP13EG89/LP13EG90/LP13EG91/LP13EG92/LP13EG93/LP13EG94/LP13EG95/LP13EG96/LP13EG97/LP13EG98/LP13EG99/LP13EG100																
Minimum full-load speed (r/min)		1500																
Maximum full-load speed (r/min)		1800																
Number of cylinders (In-line, Horizontal)		6L																
Bore		mm	128	130	130	130	130	130	130	130	130							
		in	5.04	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12							
Stroke		mm	153	161	161	161	161	161	161	161	161							
		in	6.02	6.34	6.34	6.34	6.34	6.34	6.34	6.34	6.34							
Displacement		litres	11.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8							
		in ³	720.0	781.1	781.1	781.1	781.1	781.1	781.1	781.1	781.1							
Injection		BOSCH Common Rail with ECU																
Aspiration		Liebherr Common Rail with ECU																
Starting: Hydraulic, Electric, Electric (Optional)		Turbo & Air to Air Intercooler					Double Turbo & Air to Air Intercooler											
Firing Order		1-5-3-6-4-2					Electric											
Compression Ratio		17:1					1-5-3-6-4-2											
Max operating temp		52°C (122°F)																
Sound Pressure Level at 1m dB(A)		≤ 96																
Continuous		kW	280	307	340	360	401	441	/	460	520	572	622	685	/	728	/	
		PS	375.5	411.7	455.9	482.8	537.7	591.4	/	616.9	697.3	767.1	834.1	918.6	/	976.3	/	
1500 r/min		kW	308	338	380	400	441	490	/	516	572	629	684	754	/	800	/	
Power 50 Hz		Fuel Stop	PS	413.0	453.3	509.6	536.4	591.4	657.1	/	678.6	767.1	843.5	917.3	1011.1	/	1072.8	/
Fixed Speed Outputs to ISO		kW	307	340	340	401	/	441	520	572	622	622	622	685	/	728	/	
1800 r/min		PS	411.7	455.9	455.9	537.7	/	591.4	697.3	767.1	834.1	834.1	834.1	918.6	/	976.3	/	
60 Hz		kW	338	380	380	441	/	490	572	629	684	684	684	754	/	800	/	
Fuel Stop		PS	453.3	509.6	509.6	591.4	/	657.1	767.1	843.5	917.3	917.3	917.3	1011.1	/	1072.8	/	
Weight		kg	1336	1336	1336	1346	1346	1354	1354	2900	2900	2900	2900	2900	2900	2900	2900	
		lb	2939	2939	2939	2961	2961	2979	2979	6380	6380	6380	6380	6380	6380	6380	6380	
Length		mm	2208	2208	2208	2275	2275	2275	2275	2635	2635	2635	2635	2635	2635	2635	2635	
		in	86.1	86.1	86.1	88.7	88.7	88.7	88.7	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	
Width		mm	1155	1155	1155	1155	1155	1155	1155	1608	1608	1608	1608	1608	1608	1608	1608	
		in	45.0	45.0	45.0	45.0	45.0	45.0	45.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	
Height		mm	1488	1488	1488	1488	1488	1488	1488	1936	1936	1936	1936	1936	1936	1936	1936	
		in	58.0	58.0	58.0	58.0	58.0	58.0	58.0	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	



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Cooling		LIQUID		LIQUID					
Engine Series	Engine Model	Venus Series	Venus Series	Venus Series	Venus Series				
LP443G1	LP443G2	LP443G3	LP443G4	LP443G6	LP665G2 LP665G3				
Minimum full-load speed (r/min)	1500	1500							
Maximum full-load speed (r/min)	1800	1800							
Number of cylinders L=In-line; H=Horizontal	4L	4L			6L				
Bore	mm	105			105				
	in	4.13			4.13				
Stroke	mm	124			124				
	in	4.88			4.88				
Displacement	litres	4.3			6.5				
	in ³	262.4			396.6				
Governor		Electronic Governor			Electronic Governor				
Injection		Direct			Direct				
Aspiration		Turbo	Turbo & Air to Air Intercooler	Turbo & Air to Air Intercooler	Turbo & Air to Air Intercooler				
Starting: H=Hand; R=Rope; E=Electric ()=optional									
Firing Order		1-3-4-2			1-5-3-6-4-2				
Compression Ratio		17.3:1			16:1				
Max operating temp					57°C (122°F)				
Sound Pressure Level at 1m dB(A)					≤ 96				
Fixed Speed Outputs to ISO 3046 Builds	1500 r/min, 50 Hz	51	62	78	95	120	128	140	168
	Continuous	63.4	83.1	104.6	127.4	140.8	160.9	171.7	225.3
Power Outputs to ISO 3046 Builds	1500 r/min, 50 Hz	56	68	86	105	116	132	141	155
	Fuel Stop	75.1	91.2	115.3	140.8	155.6	177.0	189.1	248.1
1800 r/min, 60 Hz	Continuous	62	67	86	105	120	120	136	150
	Fuel Stop	83.1	89.8	115.3	140.8	160.9	182.4	201.2	241.4
Weight	kg	68	74	95	116	132	132	150	165
	lb	91.2	99.2	127.4	155.6	177.0	177.0	201.2	221.3
Length	mm	486	486	504	504	504	504	708	713
	in	1069	1069	1069	1109	1109	1109	1558	1569
Width	mm	1308	1308	1308	1364	1364	1364	1668	1668
	in	51.0	51.0	51.0	53.2	53.2	53.2	65.1	65.1
Height	mm	725	725	725	790	790	790	876	876
	in	28.3	28.3	28.3	30.8	30.8	30.8	34.2	34.2
Height	mm	1079	1079	1079	1079	1079	1079	1213	1213
	in	42.1	42.1	42.1	42.1	42.1	42.1	47.3	47.3

LP443G



LP665G



Cooling		LIQUID		LIQUID					
Engine Series	Engine Model	Venus Series	Venus Series	Venus Series	Venus Series				
LP689G1	LP689G2	LP689G3	LP612G1	LP612G2	LP612G3 LP613G1 LP613G2				
Minimum full-load speed (r/min)	1500	1500							
Maximum full-load speed (r/min)	1800	1800							
Number of cylinders L=In-line; H=Horizontal	6L	6L							
Bore	mm	114			128				
	in	4.49			5.04				
Stroke	mm	114			153				
	in	4.49			6.02				
Displacement	litres	8.9			11.8				
	in ³	543.1			720.0				
Governor		Electronic Governor			Electronic Governor				
Injection		Direct			Direct				
Aspiration		Turbo & Air to Air Intercooler			Turbo & Air to Air Intercooler				
Starting: H=Hand; R=Rope; E=Electric ()=optional									
Firing Order		1-5-3-6-4-2			1-5-3-6-4-2				
Compression Ratio		18.0:1			16.5:1				
Max operating temp					57°C (122°F)				
Sound Pressure Level at 1m dB(A)					≤ 96				
Fixed Speed Outputs to ISO 3046 Builds	1500 r/min, 50 Hz	185	208	230	255	280	307	339	368
	Continuous	248.1	278.9	308.4	342.0	375.5	411.7	454.6	493.5
Power Outputs to ISO 3046 Builds	1500 r/min, 50 Hz	204	228	253	280	308	338	373	405
	Fuel Stop	273.6	305.8	339.3	375.5	413.0	453.3	500.2	543.1
1800 r/min, 60 Hz	Continuous	205	228	255	268	307	307	339	368
	Fuel Stop	274.9	305.8	342.0	359.4	411.7	411.7	454.6	493.5
Weight	kg	226	250	282	282	338	338	373	405
	lb	303.1	335.3	378.2	378.2	453.3	453.3	500.2	543.1
Length	mm	855	855	1024	1336	1336	1336	1346	1346
	in	1730	1730	1796	2199	2199	2199	2259	2259
Width	mm	67.5	67.5	70.0	85.8	85.8	85.8	88.1	88.1
	in	95.1	95.1	95.1	115.5	115.5	115.5	115.5	115.5
Height	mm	37.1	37.1	37.1	37.1	45.0	45.0	45.0	45.0
	in	1225	1225	1348	1488	1488	1488	1488	1488
Height	mm	47.8	47.8	52.6	58.0	58.0	58.0	58.0	58.0
	in	47.8	47.8	52.6	58.0	58.0	58.0	58.0	58.0

LP689G



LP612G



LP613G



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