

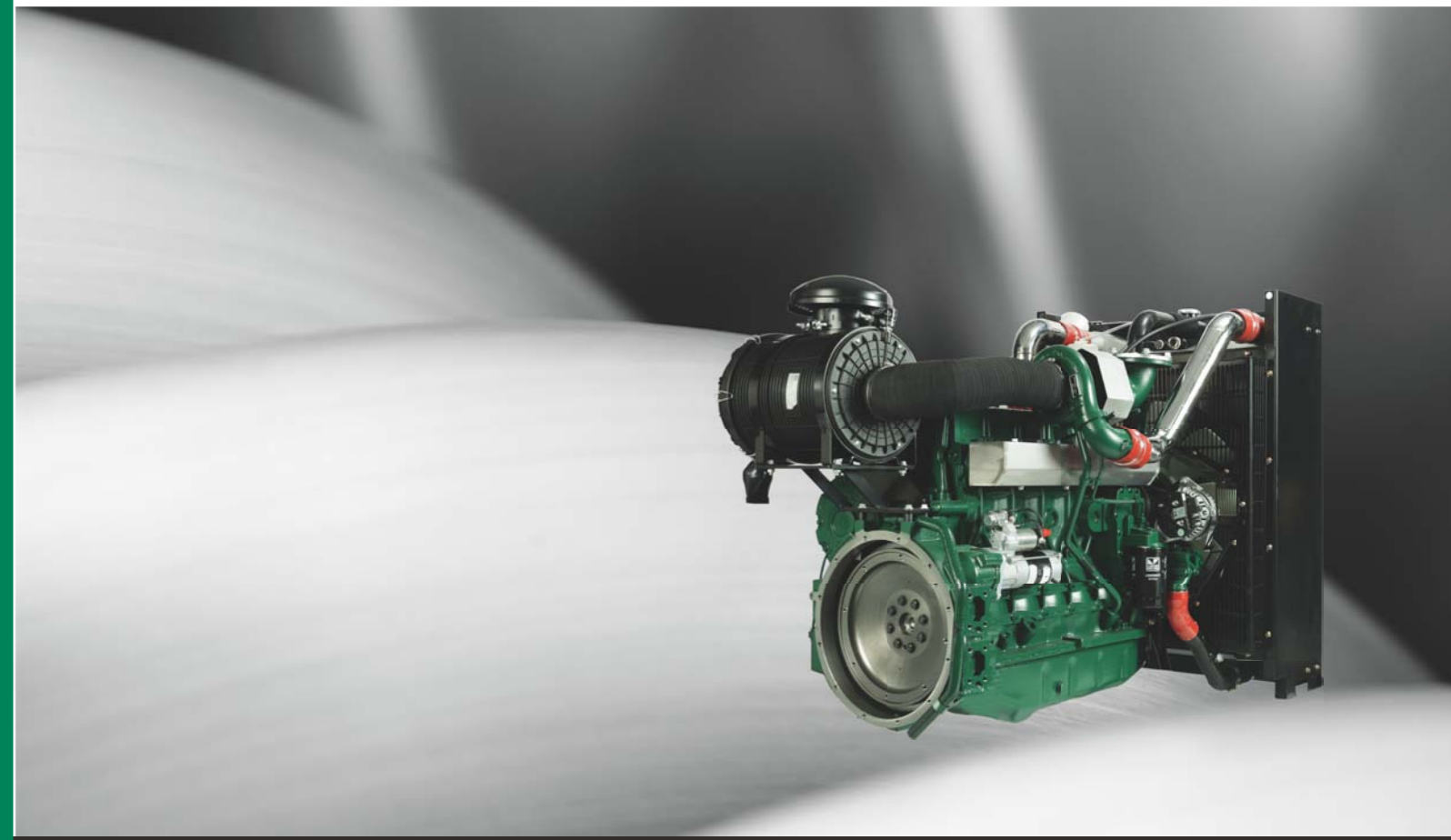


Lister Petter Product

G Drive Engine Range Guide



Built On A Legacy,
Focused On The Future



SINCE 1865



Lister Petter Engine Company Limited



SINCE 1865

LISTER PETTER

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Cooling		LIQUID										
Engine Series		Starlite Series										
Engine Model		SA423G1	SA427G1	SA430G1	SA432G1	SA432G2	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			
	in	3.3	3.5	3.7	3.9	3.9	3.9	4.1	4.1			
Stroke	mm	100	105	105	105	105	115	118	118			
	in	3.9	4.1	4.1	4.1	4.1	4.5	4.6	4.6			
Displacement	litres	2.3	2.7	3.0	3.2	3.2	3.5	4.1	4.1			
	in ³	138.5	164.8	183.1	195.3	195.3	213.6	250.2	250.2			
Governor		Electronic										
Injection		Direct										
Aspiration		Natural					Turbo			Turbo, Intercooler		
Starting: H=hand; R=Rope; E=electric ()=optional		Electric										
Firing Order		1-3-4-2										
Compression Ratio		18.0:1		18.5:1				18.0:1				
Max operating temp		52°C (122°F)										
Sound Pressure Level at 1m dB(A)		≤ 98					≤ 100					
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	16	22	27	32	39	49	59	64
				PS	21.4	29.5	36.2	42.9	52.3	65.7	79.1	85.8
			Fuel Stop	kW	18	24	30	35	44	54	65	70
		PS		24.1	32.2	40.2	46.9	59.0	72.4	87.1	93.8	
		1800 r/min, 60 Hz	Continuous	kW	21	26	30	38	42	59	70	76
				PS	28.1	34.8	40.2	50.9	56.3	79.1	93.8	101.8
	Fuel Stop		kW	23	29	33	42	46	65	77	83	
		PS	30.8	38.9	44.2	56.3	61.6	87.1	103.2	111.2		
	Weight		kg	257	297	302	302	312	324	418	428	
			lb	565	653	664	664	686	713	920	942	
	Length		mm	1116	1155	1155	1155	1155	1063	1233	1233	
			in	43.5	45.0	45.0	45.0	45.0	41.5	48.1	48.1	
Width		mm	670	670	670	670	670	670	770	770		
		in	26.1	26.1	26.1	26.1	26.1	26.1	30.0	30.0		
Height		mm	800	845	845	845	845	945	988	988		
		in	31.2	33.0	33.0	33.0	33.0	36.9	38.5	38.5		

Cooling		AIR			LIQUID												
Engine Series		T SERIES			ALPHA SERIES				ALPHA MAX								
Engine model		TR1	TR2	TR3	LPW2	LPW3	LPW4	LPWT4	LPWX2	LPWX3	LPWX4						
Minimum full-load speed (r/min)		1500			1500												
Maximum full-load speed (r/min)		1800			3600				3000		3600						
Number of cylinders L=in-line; H=horizontal		1L	2L	3L	2L	3L	4L	4L	2L	3L	4L						
Bore	mm	98.4			86.0				86.0								
	in	3.87			3.39				3.39								
Stroke	mm	101.6			80.0				86.0								
	in	4.00			3.15				3.39								
Displacement	litres	0.773	1.546	2.319	0.930	1.395	1.86	1.86	0.999	1.499	1.998						
	in ³	47.2	94.3	141.5	56.8	85.1	113.5	113.5	61.0	91.4	121.9						
Injection		Direct			Direct												
Aspiration		Natural			Natural				Turbo		Natural						
Starting: H=hand; R=Rope; E=electric ()=optional		Hand (Electric)			Electric				Electric								
Firing Order		1	1-2	1-2-3	1-2	1-2-3	1-3-4-2		1-2	1-2-3	1-3-4-2						
Compression Ratio		15.5 : 1			18.5 : 1			16.2 : 1		19.5 : 1							
Max operating temp		40°C (104°F)					52°C (122°F)										
Sound Pressure Level at 1m dB(A)		≤ 96		≤ 95		≤ 93		≤ 93		≤ 95		≤ 88		≤ 92		≤ 95	
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	5.5	11.0	16.8	7.5	11.3	15.0	18.9	8.6	12.9	16.9			
				PS	7.4	14.8	22.5	10.1	15.2	20.1	25.3	11.5	17.3	22.6			
			Fuel Stop	kW	6.1	12.1	18.5	8.2	12.4	16.5	20.9	9.4	14.1	18.5			
		PS		8.2	16.2	24.8	11.0	16.6	22.1	28.1	12.6	18.9	24.8				
		1800 r/min, 60 Hz	Continuous	kW	6.7	13.1	20.2	9.3	13.9	18.6	24.2	10.6	15.8	20.9			
				PS	9.0	17.6	27.1	12.5	18.6	24.9	32.4	14.2	21.2	28.0			
	Fuel Stop		kW	7.4	14.4	22.2	10.2	15.3	20.3	26.9	11.6	17.0	23.0				
		PS	9.9	19.3	29.8	13.7	20.5	27.2	36.0	15.5	22.8	30.8					
	3000 r/min, 50 Hz	Continuous	kW				13.4	20.1	26.8	33.7	14.7	22.1	29.5				
			PS				18.0	26.9	35.9	45.2	19.7	29.6	39.5				
		Fuel Stop	kW				14.7	22.1	29.5	37.5	16.1	24.3	32.4				
	PS					19.7	29.6	39.5	50.3	21.6	32.6	43.4					
3600 r/min, 60 Hz	Continuous	kW				12.7	19.1	25.4		14.5	21.5	28.0					
		PS				17.0	25.6	34.1		19.4	28.8	37.5					
	Fuel Stop	kW				14.0	21.0	28.0		16.0	23.7	30.8					
PS					18.8	28.1	37.5		21.5	31.8	41.3						
Weight		kg	153	185	230	158	179	219	224	158	179	219					
		lb	337	408	507	348	395	483	494	348	395	483					
Length		mm	444	571	698	699	809	909	930	699	809	909					
		in	17.5	22.5	27.5	27.5	31.9	35.8	36.6	27.5	31.9	35.8					
Width		mm	521			512			565		512						
		in	20.5			20.2			22.2		20.2						
Height		mm	683			647		685		647		685					
		in	26.9			25.5		27.0		25.5		27.0					

SA423G1

SA427G1

SA430G/SA432G1

SA432G2

SA435G1

SA441G1/2



TR2

TR3

LPW3

LPW4



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Cooling		LIQUID																		
Engine Series		Mercury Max series									Venus Max Series									
Engine Model		LP311EG1/LP311EG13 LP428EG1 LP428EG2 LP428EG3 LP443EG3 LP443EG4 LP443EG5 LP443EG6 LP665EG1 LP665EG2 LP665EG3 LP665EG4 LP689EG1 LP689EG2 LP689EG3 LP689EG4																		
Minimum full-load speed (r/min)		1500																		
Maximum full-load speed (r/min)		1800																		
Number of cylinders L=in-line; H=horizontal		3L			4L						6L									
Bore	mm	78	94	105	105	114														
	in	3.1	3.7	4.13	4.13	4.49														
Stroke	mm	78.4	100	124	124	114														
	in	3.1	3.9	4.88	4.88	4.49														
Displacement	litres	1.1	2.8	4.3	6.5	8.9														
	in ³	67.1	170.9	262.4	396.6	543.1														
Injection		BOSCH Common Rail with ECU									Denso Common Rail with ECU									
Aspiration		Natural	Turbo & Intercooler			Turbo & Air to Air Intercooler														
Starting: H=hand; R=Rope; E=electric ()=optional		Electric																		
Firing Order		1-3-2	1-3-4-2			1-3-4-2			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			16.5:1								
Max operating temp		52°C (122°F)																		
Sound Pressure Level at 1m dB(A)		≤ 96																		
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	11	38	51	62	78	95	106	125	128	140	168	186	185	195	230	255
			Fuel Stop	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
		1800 r/min, 60 Hz	Continuous	kW	12	42	56	68	86	105	117	140	141	155	185	205	204	228	253	280
			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	375.5
		1800 r/min, 60 Hz	Continuous	kW	13.2	/	/	/	86	105	120	125	136	150	180	186	205	235	255	280
			Fuel Stop	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
	1800 r/min, 60 Hz	Continuous	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	534	713	713	713	713	850	850	1024	1024		
		lb	286	726	726	726	1175	1175	1175	1175	1569	1569	1569	1569	1870	1870	2253	2253		
	Length	mm	810	1217	1217	1217	1056	1368	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	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	790	876	876	876	876	951	951	951	951			
	in	18.3	26.3	26.3	26.3	30.2	30.8	30.8	30.8	34.2	34.2	34.2	34.2	37.1	37.1	37.1	37.1			
Height	mm	708	940	940	940	1079	1084	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	42.3	47.3	47.3	47.3	47.3	47.8	47.8	53.3	53.3			

Cooling		LIQUID																	
Engine Series		Venus Max Series									Mars Max Series								
Engine Model		LP612EG1 LP612EG2 LP612EG3 LP613EG1 LP613EG2 LP613EG3 LP613EG4 LP625EG1 LP625EG2 LP625EG3 LP625EG4 LP625EG5 LP625EG6 LP625EG7 LP625EG8																	
Minimum full-load speed (r/min)		1500																	
Maximum full-load speed (r/min)		1800																	
Number of cylinders L=in-line; H=horizontal		6L																	
Bore	mm	128	130	170															
	in	5.04	5.12	6.69															
Stroke	mm	153	161	185															
	in	6.02	6.34	7.28															
Displacement	litres	11.8	12.8	25.18															
	in ³	720.0	781.1	1536.5															
Injection		BOSCH Common Rail with ECU									Liebherr Common Rail with ECU								
Aspiration		Turbo & Air to Air Intercooler									Double Turbo & Air to Air Intercooler								
Starting: H=hand; R=Rope; E=electric ()=optional		Electric																	
Firing Order		1-5-3-6-4-2									1-5-3-6-4-2								
Compression Ratio		17:1									14.5:1								
Max operating temp		52°C (122°F)																	
Sound Pressure Level at 1m dB(A)		≤ 96																	
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	280	307	340	360	401	441	/	460	520	572	622	685	/	728	/
			Fuel Stop	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	/
		1800 r/min, 60 Hz	Continuous	kW	308	338	380	400	441	490	/	506	572	629	684	754	/	800	/
			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	/
		1800 r/min, 60 Hz	Continuous	kW	307	340	340	401	/	/	441	520	572	622	622	/	685	/	728
			Fuel Stop	PS	411.7	455.9	455.9	537.7	/	/	591.4	697.3	767.1	834.1	834.1	/	918.6	/	976.3
	1800 r/min, 60 Hz	Continuous	kW	338	380	380	441	/	/	490	572	629	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	/	1011.1	/	1072.8	
	Weight	kg	1336	1336	1336	1346	1346	1354	1354	2900	2900	2900	2900	2900	2900	2900	2900	2900	
		lb	2939	2939	2939	2961	2961	2979	2979	6380	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	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	102.8	
Width	mm	1155	1155	1155	1155	1155	1155	1155	1608	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	62.7		
Height	mm	1488	1488	1488	1488	1488	1488	1488	1936	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	75.5		

LP311EG

LP428EG

LP443EG

LP665EG

LP689EG

LP612EG

LP613EG

LP625EG



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Cooling		LIQUID												
Engine Series		Venus Series					Venus Series							
Engine Model		LP443G1	LP443G2	LP443G3	LP443G4	LP443G5	LP443G6	LP665G1	LP665G2	LP665G3				
Minimum full-load speed (r/min)		1500												
Maximum full-load speed (r/min)		1800												
Number of cylinders L=in-line; H=horizontal		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												
Aspiration		Turbo			Turbo & Air to Air Intercooler			Turbo & Air to Air Intercooler						
Starting: H=hand; R=Rope; E=electric ()=optional		Electric												
Firing Order		1-3-4-2					1-5-3-6-4-2							
Compression Ratio		17.3:1					16:1							
Max operating temp		52°C (122°F)												
Sound Pressure Level at 1m dB(A)		≤ 96												
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	51	62	78	95	105	120	128	140	168	
				PS	68.4	83.1	104.6	127.4	140.8	160.9	171.7	187.7	225.3	
			Fuel Stop	kW	56	68	86	105	116	132	141	155	185	
		PS		75.1	91.2	115.3	140.8	155.6	177.0	189.1	207.9	248.1		
		1800 r/min, 60 Hz	Continuous	kW	62	67	86	105	120	120	136	150	180	
				PS	83.1	89.8	115.3	140.8	160.9	160.9	182.4	201.2	241.4	
	Fuel Stop		kW	68	74	95	116	132	132	150	165	198		
		PS	91.2	99.2	127.4	155.6	177.0	177.0	201.2	221.3	265.5			
	Weight			kg	486	486	486	504	504	504	708	713	713	
				lb	1069	1069	1069	1109	1109	1109	1558	1569	1569	
	Length			mm	1308	1308	1308	1364	1364	1364	1668	1668	1668	
				in	51.0	51.0	51.0	53.2	53.2	53.2	65.1	65.1	65.1	
Width			mm	725	725	725	790	790	790	876	876	876		
			in	28.3	28.3	28.3	30.8	30.8	30.8	34.2	34.2	34.2		
Height			mm	1079	1079	1079	1079	1079	1079	1213	1213	1213		
			in	42.1	42.1	42.1	42.1	42.1	42.1	47.3	47.3	47.3		

LP443G



LP665G



LP689G



LP612G



LP613G



Cooling		LIQUID										
Engine Series		Venus Series										
Engine Model		LP689G1	LP689G2	LP689G3	LP612G1	LP612G2	LP612G3	LP613G1	LP613G2			
Minimum full-load speed (r/min)		1500										
Maximum full-load speed (r/min)		1800										
Number of cylinders L=in-line; H=horizontal		6L										
Bore	mm	114			128			130				
	in	4.49			5.04			5.12				
Stroke	mm	114			153			161				
	in	4.49			6.02			6.34				
Displacement	litres	8.9			11.8			12.8				
	in ³	543.1			720.0			781.1				
Governor		Electronic Governor										
Injection		Direct										
Aspiration		Turbo & Air to Air Intercooler										
Starting: H=hand; R=Rope; E=electric ()=optional		Electric										
Firing Order		1-5-3-6-4-2										
Compression Ratio		18.0:1			16.5:1			17.0:1				
Max operating temp		52°C (122°F)										
Sound Pressure Level at 1m dB(A)		≤ 96										
Fixed Speed Builds	Power Outputs to ISO 3046	1500 r/min, 50 Hz	Continuous	kW	185	208	230	255	280	307	339	368
				PS	248.1	278.9	308.4	342.0	375.5	411.7	454.6	493.5
			Fuel Stop	kW	204	228	253	280	308	338	373	405
		PS		273.6	305.8	339.3	375.5	413.0	453.3	500.2	543.1	
		1800 r/min, 60 Hz	Continuous	kW	205	228	255	268	307	307	339	368
				PS	274.9	305.8	342.0	359.4	411.7	411.7	454.6	493.5
	Fuel Stop		kW	226	250	282	282	338	338	373	405	
		PS	303.1	335.3	378.2	378.2	453.3	453.3	500.2	543.1		
	Weight			kg	855	855	1024	1336	1336	1336	1346	1346
				lb	1881	1881	2253	2939	2939	2939	2961	2961
	Length			mm	1730	1730	1796	2199	2199	2199	2259	2259
				in	67.5	67.5	70.0	85.8	85.8	85.8	88.1	88.1
Width			mm	951	951	951	1155	1155	1155	1155	1155	
			in	37.1	37.1	37.1	45.0	45.0	45.0	45.0	45.0	
Height			mm	1225	1225	1348	1488	1488	1488	1488	1488	
			in	47.8	47.8	52.6	58.0	58.0	58.0	58.0	58.0	

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