
















Comprehensive Product Applications

Many genset companies have chosen Leroy-Somer as their preferred global strategic partner. As a result, every 1 in 4 alternators throughout the world is made by Leroy-Somer. They are widely used in residential & commercial buildings, power plant, nuclear, hydropower, railway, marine, internet data center, oil & gas and military applications. Leroy-Somer alternators are highly compatible with all domestic and international prime engine brands. Wind turbines and marine alternators that meet the technical standards of each classification society are also available. Leroy-Somer has been in the China market for more than 25 years. Leroy-Somer alternators have been used in the projects of Qinghai-Tibet Railway, China General Nuclear Power Group, China Mobile, Beijing International Financial Center, Shanghai Zhenhua Port Machinery, Daqing Oilfield, Chunxiao Oil & Gas field, Sinovel-Wind Turbine, Beijing Olympic Games and Shanghai World Expo, etc.

 Commercial / Industrial Power Range:15kW-2000kW	 Building & construction Power Range:5kW-4000kW	 Telecom Power Range:5kW-2000kW
 Data Centers Power Range:5kW-2500kW	 Nuclear Power Range:100kW-10MW	 Prime Power Plants Power Range:30kW-25MW
 Hydro Power Range:400kW-25MW	 Mining Power Range:5kW-8MW	 Oil & Gas Onshore Power Range:350kW-20MW
 Oil & Gas Offshore Power Range:350kW-20MW	 Marine Power Range:15kW-20MW	 Defense Power Range:400kW-20MW
 Traction Power Range:15kW-82kW	 Rail Power Range:10kW-1000kW	 Aviation Power Range:12kW-100kW



LEROY-SOMER™

www.leroy-somer.com/epg

Medium & High Voltage Alternator

LSA52 – LSA53 – LSA54

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Moteurs Leroy-Somer SAS. Headquarters: Bd Marcellin Leroy, CS 10015, 16915 Angoulême Cedex 9, France. Share Capital: 38 679 664 €, RCS Angoulême 338 567 258.



Application

Leroy Somer medium voltage and high voltage alternator are designed to be suitable for typical generator set applicant such as: power plant, nuclear, on & off shore, marine, IDC, cogeneration, CHP....

Compliant with International Standard

The alternator complies with the main international standards and regulations: IEC60034; NEMA MG1.22 and ISO8528/3. The alternator is designed, manufactured and marked in an ISO9001 and ISO14001 environment.

Top of the range electrical performance

- Class H insulation
- 5/6 winding pitch (2/3 option, please contact us when placing an order.)
- Standard 6 leads
- AREP+PMI
- AVR: D550

Excitation and Regulation Systems Suited for Vanous Applicant

The alternator can be supplied with either "AREP+PMI" or PMG excitation system, according to the alternator specification.

Excitation System			Regulation Options			
	AREP+PMI	PMG	CT Mains	Mains	3 Phase Sensing	Option External Pot.
D550	Standard	Option	✓	Included	Included	Option

Options

- Droop CT
- Space heaters
- Thermal protection for stator windings &/or bearing (PT100)
- Protection or metering CTs
- Others

Reinforced Mechanical Structure Using Finite Element Modeling

- Compact and rigid assembly to better withstand genset or engine vibrations
- Steel frame
- Cast iron flanges and shields
- Double bearing and single bearing versions designed to be suitable for most engines on the market
- Half-key balancing
- Regreasable bearings
- Clockwise rotation in standard

Accessible Terminal Box Designed For Optional Equipment

- Easy access to the voltage regulator and to the connections
- Possible incorporation of accessories for paralleling, protection and measurement

Common Data

Insulation Class	H	Excitation System	AREP + PMI
Winding Pitch	5/6	AVR	D550
Terminals	6	Voltage Regulation Accuracy(*)	± 0.5 %
Drip Proof	IP 23	Sustained short-circuit current	300% (3 IN) : 10s
Altitude	≤ 1000 m	Total harmonic THD(**)	5 %
Over Speed	2250min ⁻¹	Waveform: NEMA=TIF(**)	< 50

(*)Steady state duty (**)Total Harmonic content line to line

Power Rating

3PH; 1500 RPM, Power factor: 0.8; Insulation: H														
MEDIUM / HIGH VOLTAGE		Temperature Rise: H (H/H)						Temperature Rise: F (H/F)						
		Cont. / 40°C		Standby / 40°C		Standby / 27°C		Cont. / 40°C		Standby / 40°C		Standby / 27°C		
		"Single Bearing"	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA
3.3kV 50Hz														
LSA 52.2 L45	✓		1049	1312	1100	1375	1124	1406	1000	1250	1060	1325	1080	1350
LSA 52.2 VL55	✓		1159	1449	1214	1518	1241	1552	1104	1380	1169	1462	1192	1490
LSA 52.2 XL65	✓		1352	1690	1416	1771	1448	1811	1288	1610	1364	1706	1390	1738
LSA 52.2 XL80	✓		1680	2100	1760	2200	1800	2250	1600	2000	1696	2120	1728	2160
LSA 53.2 M7	✓		1764	2205	1848	2310	1889	2362	1680	2100	1780	2226	1814	2268
LSA 53.2 VL8	✓		1973	2467	2068	2585	2114	2643	1880	2350	1992	2491	2030	2538
LSA 53.2 VL10	✓		2268	2835	2376	2970	2429	3037	2160	2700	2289	2862	2332	2916
LSA 53.2 XL13	✓		2604	3255	2728	3410	2789	3487	2480	3100	2628	3286	2678	3348
LSA 53.2 XL14	✓		2813	3517	2948	3685	3014	3768	2680	3350	2840	3551	2894	3618
LSA 54.2 VL7	✓		2352	2940	2464	3080	2520	3150	2240	2800	2374	2968	2419	3024
LSA 54.2 VL9	✓		2561	3202	2684	3355	2744	3431	2440	3050	2586	3233	2635	3294
LSA 54.2 XL11	✓		3024	3780	3168	3960	3240	4050	2880	3600	3052	3816	3110	3888
LSA 54.2 XL13	✓		3360	4200	3520	4400	3600	4500	3200	4000	3392	4240	3456	4320
LSA 54.2 ZL15	✓		3612	4515	3784	4730	3869	4837	3440	4300	3646	4558	3715	4644
4.16kV 60Hz														
LSA 52.2 L45	✓		1159	1449	1214	1518	1241	1552	1104	1380	1169	1462	1192	1490
LSA 52.2 VL50	✓		1312	1641	1375	1719	1406	1758	1250	1563	1324	1656	1350	1688
LSA 52.2 VL60	✓		1574	1968	1649	2062	1687	2109	1500	1875	1589	1987	1620	2025
LSA 52.2 UL65	×		1596	1995	1672	2090	1709	2137	1520	1900	1611	2014	1641	2052
LSA 52.2 XL70	×		1764	2205	1848	2310	1889	2362	1680	2100	1780	2226	1814	2268
LSA 52.2 XL80	×		2100	2625	2200	2750	2249	2812	2000	2500	2120	2650	2160	2700
LSA 53.2 M7	✓		2100	2625	2200	2750	2249	2812	2000	2500	2120	2650	2160	2700
LSA 53.2 VL8	✓		2352	2940	2464	3080	2520	3150	2240	2800	2374	2968	2419	3024
LSA 53.2 VL10	✓		2688	3360	2816	3520	2880	3600	2560	3200	2713	3392	2764	3456
LSA54.2 VL7	✓		2604	3255	2728	3410	2789	3487	2480	3100	2628	3286	2678	3348
LSA54.2 VL9	✓		2813	3517	2948	3685	3014	3768	2680	3350	2840	3551	2894	3618
LSA54.2 XL11	✓		3360	4200	3520	4400	3600	4500	3200	4000	3392	4240	3456	4320
LSA54.2 XL13	✓		3653	4567	3828	4785	3914	4893	3480	4350	3688	4611	3758	4698
LSA54.2 ZL15	✓		3696	4620	3872	4840	3960	4950	3520	4400	3731	4664	3801	4752
6kV 50Hz														
LSA 52.2 L45	✓		1049	1312	1100	1375	1124	1406	1000	1250	1060	1325	1080	1350
LSA 52.2 VL60	✓		1159	1449	1214	1518	1241	1552	1104	1380	1169	1462	1192	1490
LSA 52.2 XL65	✓		1276	1596	1337	1672	1368	1710	1216	1520	1288	1611	1312	1641
LSA 52.2 XL75	✓		1512	1890	1584	1980	1620	2025	1440	1800	1526	1908	1555	1944
LSA 52.2 XL80	✓		1680	2100	1760	2200	1800	2250	1600	2000	1696	2120	1728	2160
LSA 53.2 M7	✓		1764	2205	1848	2310	1889	2362	1680	2100	1780	2226	1814	2268
LSA 53.2 VL8	✓		1973	2467	2068	2585	2114	2643	1880	2350	1992	2491	2030	2538
LSA 53.2 VL10	✓		2268	2835	2376	2970	2429	3037	2160	2700	2289	2862	2332	2916
LSA 53.2 XL13	✓		2604	3255	2728	3410	2789	3487	2480	3100	2628	3286	2678	3348
LSA 54.2VL7	✓		2352	2940	2464	3080	2520	3150	2240	2800	2374	2968	2419	3024
LSA 54.2 VL9	✓		2561	3202	2684	3355	2744	3431	2440	3050	2586	3233	2635	3294
LSA 54.2 XL11	✓		3024	3780	3168	3960	3240	4050	2880	3600	3052	3816	3110	3888
LSA 54.2 XL13	✓		3360	4200	3520	4400	3600	4500	3200	4000	3392	4240	3456	4320
LSA 54.2 ZL15	×		3612	4515	3784	4730	3869	4837	3440	4300	3646	4558	3715	4644
6.3 / 6.6 kV 50Hz														
LSA 52.2 L45	✓		1049	1312	1100	1375	1124	1406	1000	1250	1060	1325	1080	1350
LSA 52.2 VL55	✓		1159	1449	1214	1518	1241	1552	1104	1380	1169	1462	1192	1490
LSA 52.2 XL65	✓		1352	1690	1416	1771	1448	1811	1288	1610	1364	1706	1390	1738
LSA 52.2 XL70	✓		1512	1890	1584	1980	1620	2025	1440	1800	1526	1908	1555	1944
LSA 52.2 XL80	✓		1680	2100	1760	2200	1800	2250	1600	2000	1696	2120	1728	2160
LSA 53.2 M7	✓		1764	2205	1848	2310	1889	2362	1680	2100	1780	2226	1814	2268
LSA 53.2 VL8	✓		1973	2467	2068	2585	2114	2643	1880	2350	1992	2491	2030	2538
LSA 53.2 VL10	✓		2268	2835	2376	2970	2429	3037	2160	2700	2289	2862	2332	2916
LSA 53.2 XL13	✓		2604	3255	2728	3410	2789	3487	2480	3100	2628	3286	2678	3348
LSA 54.2VL7	✓		2352	2940	2464	3080	2520	3150	2240	2800	2374	2968	2419	3024
LSA 54.2 VL9	✓		2561	3202	2684	3355	2744	3431	2440	3050	2586	3233	2635	3294
LSA 54.2 XL11	✓		3024	3780	3168	3960	3240	4050	2880	3600	3052	3816	3110	3888
LSA 54.2 XL13	✓		3360	4200	3520	4400	3600	4500	3200	4000	3392	4240	3456	4320
LSA 54.2 ZL15	✓		3612	4515	3784	4730	3869	4837	3440	4300	3646	4558	3715	4644

(*)Please contact us when placing an order.

Power Rating

3PH; 1500 RPM, Power factor: 0.8; Insulation: H														
MEDIUM / HIGH VOLTAGE		Temperature Rise: H (H/H)						Temperature Rise: F (H/F)						
		Cont. / 40°C		Standby / 40°C		Standby / 27°C		Cont. / 40°C		Standby / 40°C		Standby / 27°C		
		"Single Bearing"	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA
6.6 kV 60Hz														
LSA 52.2 L45	✓		1159	1449	1214	1518	1241	1552	1104	1380	1169	1462	1192	1490
LSA 52.2 VL55	✓		1344	1680	1408	1760	1440	1800	1280	1600	1356	1696	1382	1728
LSA 52.2 VL60	×		1512	1890	1584	1980	1620	2025	1440	1800	1526	1908	1555	1944
LSA 52.2 XL70	×		1680	2100	1760	2200	1800	2250	1600	2000	1696	2120	1728	2160
LSA 52.2 XL80	×		1973	2467	2068	2585	2114	2643	1880	2350	1992	2491	2030	2538
LSA 53.2 M7	✓		2028	2535	2124	2656	2172	2716	1932	2415	2047	2559	2086	2608
LSA 53.2 VL8	✓		2268	2835	237									