

STATIONARY BATTERIES LEAD ACID

TECHNOLOGY

NOMINAL VOLTAGE

CAPACITY

LIFE TIME

SERIES LM SOLAR OPZS

FLOODED

2 Vdc

150 Ah to 5000 Ah

20 YEARS

APPLICATIONS AND KEY BENEFITS

- Solar 2V cells
- up to 5000 Ah real capacity at C120 1.85 VPC
- Designed for regular and long deep discharge ideal for:
- Renewable energy islands (Solar / Wind)
- Off-grid applications: BTS, mobile phone stations, signaling, lighting, drinking water supply systems and other
- High capacity applications in areas with unstable grid and unreliable power supply
- Excellent cycling also in state of partial discharge
- >1.500 cycles at 20°C / 60% DoD
- >5.000 cycles at 20°C / 20% DoD
- OPzS technology, with tubular positive plates and free liquid electrolyte
- Allows use with electrolyte recirculation
- Dimensions according to DIN 40736 OPzS cells
- Suitable for use at elevated temperature
- Optimized for deep discharge recovery DIN 43539T5
- 20 years design life under float condition
- Also available in dry charged version
- 100% Recyclable



TECHNICAL FEATURES

- Tubular positive plates with special low antimony lead alloy reduces loss of water (3-year topping-up intervals on float condition)
- Electrolyte: high purity sulphuric acid solution with 1,24 specific gravity at 20°C
- Additional electrolyte to reduce topping-up
- Pasted negative grid plates designed to have service lives consistent with the positive plates
- Separators with extremely high porosity and low internal resistance
- Container in acid resistant SAN, designed for unsurpassed mechanical strength
- Lid in standard ABS
- Threaded female M10 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- High integrity post seal design to prevent H₂ electrolyte leakage and terminal corrosion
- Ceramic plugs filter electrolyte from escaping gasses
- Flame arrestors prevent sparks or flames from entering the battery
- < 3% self-discharge per month at 20°C allows 6 months shelf life
- Installation in vertical position Flexible, fully insulated cable connectors with insulated screw with probe hole on the top for electrical measurement

APPLICABLE STANDARDS

- IEC 61427 - photovoltaic energy systems
- DIN 40736 - specification OPzS cells
- DIN 43539T5 - deep discharge
- DIN 40740 - electrolyte level indicator
- IEC 60896 Part 11 - vented types requirements & tests

ALBAT provide completely Design DC&AC Power Supply Systems by your technical request, Production, Assembly, Testing and Service in warranty and after-warranty period.

The production process is in accordance with the standards ISO 9001:2015, ISO 14001:2015 and ISO 45001:2015. All products are in compliance with IEC 60896-21/-22, EN 50272-2, IEC 61427-1/2, IEC 61056-1.

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SERIES SMG SOLAR OPZS

FIAMM PARTNER

Technical specifications

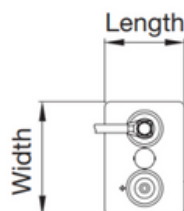
Model	Capacity Ah 120 hrs to 1,85Vpc at 20°C	Short circuit current A IEC 60896 21-22	Internal resistance mΩ IEC 60896 21-22	Weight kg with el.	Electrolyte litres	Dimensions mm			Terminals +/-
						L	W	H	
LM/S 150	150	1220	1,860	14,2	4,4	103	206	420	1/1
LM/S 220	220	1840	1,240	16,4	4,0	103	206	420	1/1
LM/S 290	290	2330	0,857	17,7	3,8	103	206	420	1/1
LM/S 360	360	2650	0,745	21,8	5,0	124	206	420	1/1
LM/S 435	435	3170	0,620	25,2	5,7	145	206	420	1/1
LM/S 510	510	3090	0,641	28,8	6,6	124	206	536	1/1
LM/S 610	610	3700	0,534	33,1	7,5	145	206	536	1/1
LM/S 710	710	4320	0,458	38,1	8,7	166	206	536	1/1
LM/S 870	870	4470	0,456	47,3	12,8	145	206	711	1/1
LM/S 1020	1020	5210	0,391	59,7	15,7	210	191	711	2/2
LM/S 1160	1160	5980	0,342	63	13,5	210	191	711	2/2
LM/S 1310	1310	6700	0,304	72,9	23,1	210	233	711	2/2
LM/S 1450	1450	7450	0,273	75,9	18,5	210	233	711	2/2
LM/S 1740	1740	8940	0,227	90,6	23,2	210	275	711	2/2
LM/S 2200	2200	10000	0,204	115	27,7	210	275	861	2/2
LM/S 2550	2550	11660	0,174	148	36,5	214	399	637	3/3
LM/S 2750	2750	12490	0,163	151	35	214	399	837	3/3
LM/S 2900	2900	13330	0,153	156	40,2	214	399	837	3/3
LM/S 3260	3260	14990	0,136	184	45,8	212	487	837	4/4
LM/S 3625	3625	16660	0,122	193	42,4	212	487	837	4/4
LM/S 4300	4300	19990	0,102	226	55,3	212	576	837	4/4
LM/S 5000	5000	23320	0,088	252	58	212	576	837	4/4

Electrical characteristics

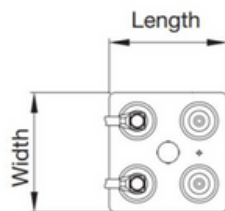
- Nominal voltage: 2 V
- Float voltage at 20°C: 2,25 V/cell
- Boost charge: 2,4 V/cell

Technical drawings-top view

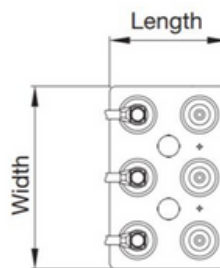
LM/S 150
LM/S 220
LM/S 290
LM/S 360
LM/S 435
LM/S 510
LM/S 610
LM/S 710
LM/S 870



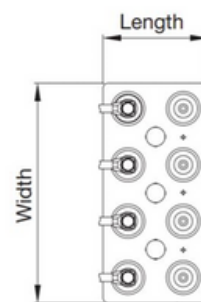
LM/S 1020
LM/S 1160
LM/S 1310
LM/S 1450
LM/S 1740
LM/S 2200



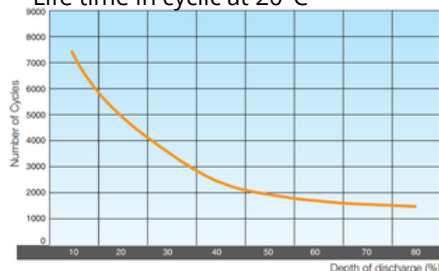
LM/S 2550
LM/S 2750
LM/S 2900



LM/S 3260
LM/S 3625
LM/S 4300
LM/S 5000



Life time in cyclic at 20°C



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