

Applications and Key Benefits

- + Solar 2V cells
 - up to 5.000 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

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

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

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 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



ENDURLITE

LM Solar OPzS



FIAMM LM Solar OPzS range

CELL TYPE	CAPACITY (Ah) at 20°C	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mohm)	WEIGHT (kg)	ELECTROLYTE	DIMENSIONS (mm)			TERMINALS
	120 hrs to 1.85 VPC	IEC 60896-11	IEC 60896-11	with electrolyte	(Litres)	Length	Width	Height	+/-
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	837	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

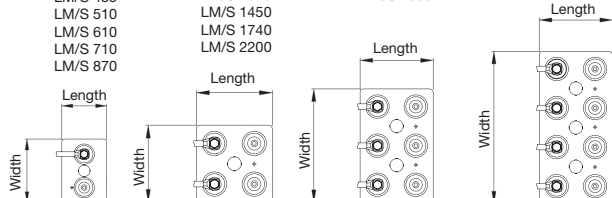
- NOMINAL VOLTAGE: 2 V
- FLOAT VOLTAGE AT 20°C: 2.23 V/cell
- BOOST RECHARGE: 2.4 V/cell

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

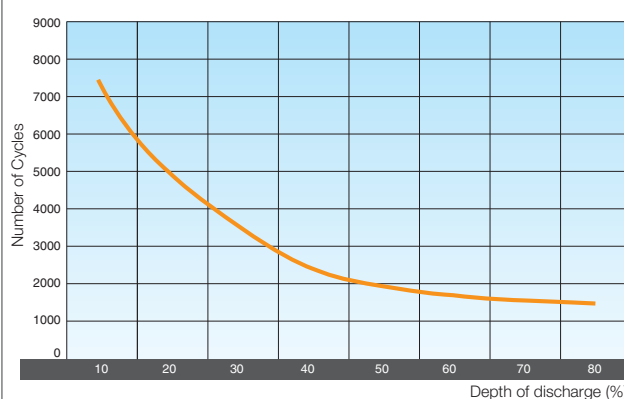
LM/S 1020
LM/S 1160
LM/S 1310
LM/S 1450
LM/S 1740
LM/S 2200

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

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



Lifetime in cyclic use at 20°C



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