



### Applications and Key Benefits

- + 2V cells with 80Ah to 2320Ah nominal capacity, designed for high and medium rate discharge in a large variety of applications

Ideal for:

- Switchgear
  - UPS systems
  - Industry
  - Emergency lighting
  - Power plants and distribution
  - Railway control centers and signaling
- + 15 years design life in float operation in temperature controlled environments
  - + Excellent for high current discharge (1 to 60 min) and medium to long discharge (2 to 10 hours)
  - + 3-year topping-up intervals on float condition
  - + Also available in dry charged version
  - + 100% Recyclable

### Applicable Standards

- IEC 60896 Part 11 - vented types requirements & tests
- BS 6290 part 2 - British Standard specification

### FIAMM Manufacturing

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

### Technical Features

- Thick positive pasted plates with cast grids in special low antimony lead alloy reduces loss of water
- Negative plates with rugged pasted grid construction with a service life compatible with the positive plates. The alloy and curing process are designed to maintain the porosity of the active material during operation
- Electrolyte of sulphuric acid with a specific gravity of 1.27 at 20°C when fully charged
- Microporous plastic separators for best electrolyte utilization and lowest internal resistance
- Cell containers are injection molded from high quality transparent SAN (styrene acrylonitrile) for easy cell status inspection
- Lids made of opaque ABS and permanently tongue-and-groove sealed to the container
- Square cell terminal pillars in lead with solid copper insert for highest conductivity
- High integrity post seal design prevents electrolyte leakage and terminal corrosion
- Vent caps effectively prevent acid spray from the cell when "gassing" during boost charge. Equipped with ceramic filter and bayonet lock to prevent errant sparks or flames from entering the cell
- Tin plated solid copper inter-cell connectors
- Stainless steel hardware
- External recombination plugs optionally available
- < 2% self-discharge per month at 20°C allows 4 months shelf life
- Optional seismic racks UBC zone 4



**ENDURLITE****SD / SDH****FIAMM SD / SDH range**

CELL TYPE	NOMINAL CAPACITY (Ah) 10 hrs. 1.80 VPC	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mOhm)	WEIGHT (kg)	ELECTROLYTE (Liters)	DIMENSIONS (mm)		
						Length	Width	Height
SD 5	80	1280	1.625	14.5	4.4	103	206	420
SD 7	120	1920	1.083	15.5	4.0	103	206	420
SD 9	160	2560	0.813	19.0	5.2	124	206	420
SD 11	200	3200	0.650	20.5	4.8	124	206	420
SD 13	240	3840	0.542	23.5	6.0	145	206	420
SD 15	280	4480	0.464	25.0	6.0	145	206	420
SD 17	320	5120	0.406	29.5	8.0	187	206	420
SD 19	360	5760	0.361	30.6	7.7	187	206	420
SD 21	400	6400	0.325	32.0	7.6	187	206	420
SD 23	440	7040	0.295	33.2	7.4	187	206	420
SDH 13	480	4800	0.438	42.6	10.9	145	206	710
SDH 15	560	5600	0.375	45.6	10.5	145	206	710
SDH 17	640	6400	0.330	57.0	15.2	210	191	710
SDH 19	720	7200	0.292	59.5	14.4	210	191	710
SDH 21	800	8000	0.263	62.5	14.4	210	191	710
SDH 23	880	8800	0.239	71.0	18.4	210	233	710
SDH 25	960	9600	0.219	73.5	17.6	210	233	710
SDH 27	1040	10400	0.202	76.0	16.8	210	233	710
SDH 29	1120	11200	0.188	84.0	20.8	210	275	710
SDH 31	1200	12000	0.175	87.0	20.4	210	275	710
SDH 33	1280	12800	0.164	89.5	20.0	210	275	710
SDH 35	1360	13600	0.154	92.5	19.6	210	275	710
SDH 37	1440	14400	0.146	126	36.8	218	368	675
SDH 39	1520	15200	0.138	127	34.8	218	368	675
SDH 41	1600	16000	0.131	128	33.1	218	368	675
SDH 43	1680	16800	0.125	129	30.8	218	368	675
SDH 45	1760	17600	0.119	130	29.2	218	368	675
SDH 47	1840	18400	0.114	130	24.8	218	368	675
SDH 49	1920	19200	0.109	131	27.1	218	368	675
SDH 51	2000	20000	0.105	150	36.0	218	448	687
SDH 53	2080	20800	0.101	152	35.2	218	448	687
SDH 55	2160	21600	0.097	154	33.6	218	448	687
SDH 57	2240	22400	0.094	156	32.8	218	448	687
SDH 59	2320	23200	0.091	158	31.5	218	448	687

**Electrical Characteristics**

- + NOMINAL VOLTAGE: 2 V/cell
- + FLOAT CHARGE AT 20°C: 2.23 V/cell
- + BOOST CHARGE: 2.40 V/cell

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