

FIAMM

Industrial Batteries

ENDURLITE

SD-SDH

series



FIAMM's **SD-SDH** battery range can be used in standby mode for duties requiring high performance. The SD-SDH battery range is specially design for high and middle rate discharges such as switchgears, power stations, UPS's. His pasted plates, a high reliability post seal guarantee a long life even in the worst operating condicions.

FIAMM has a program of continuous improvement investing in manufacturing processes, equipment and technology.

FIAMM's Standby Battery manufacture conforms to ISO 9001 and ISO 14001 quality assurance. Our continuous investment in battery technology is reflected by means of premium products that are of the highest quality and reliability.

FIAMM's **SD-SDH** pasted vented lead acid batteries are the ideal energy source for many different standby applications.

Technical Features

Positive plates: pasted plate construction with grids cast from a special lead-alloy for reduction in water loss and filling intervals

Negative plates: rugged pasted grid construction with a service life compatible with the positive plates

Separators: microporous plastic matched with fiberglass mats provide maximum electrolyte utilisation while retaining minimum internal resistance

Containers: injection moulded from high quality transparent SAN (Styrene Acrylonitrile) for easy cell status inspection

Lids: moulded from opaque SAN and permanently tongue-and- groove sealed to the container

Vent caps: effectively prevent acid spray from the cell when "gassing" during boost charge. They are provided with explosion preventing ceramic filter and bayonet lock

Cell pillars, connectors and hardware: the cell terminal pillars are of lead with solid copper insert of high conductivity. Intercell connectors are of lead plated solid copper. Lead plated brass hardware is supplied as standard. Stainless steel hardware available upon request

Electrolyte density: sulphuric acid having a specific gravity, when fully charged, of 1.27 at 20°C

Post seals: high integrity post seal design to prevent electrolyte leakage and terminal corrosion

Applicable Standards

IEC 60896 part 11
BS 6290

Product Features

- + Long life
- + Efficiency
- + High performance
- + Low maintenance

Standby Products

ENDURLITE**SD-SDH series**

CELL TYPE	NOMINAL CAPACITY C ₁₀ (Ah) (1.8 Volt/cell 20°C)	CELL WEIGHT (kg)		DIMENSIONS (mm)			LITERS OF ACID
		Filled	Empty	Length	Width	Height	
SD 5	80	14.5	9.0	103	206	420	4.4
SD 7	120	15.5	10.5	103	206	420	4.0
SD 9	160	19.0	12.5	124	206	420	5.2
SD 11	200	20.5	14.5	124	206	420	4.8
SD 13	240	23.5	16.0	145	206	420	6.0
SD 15	280	25.0	17.5	145	206	420	6.0
SD 17	320	29.5	19.5	187	206	420	8.0
SD 19	360	30.6	21.0	187	206	420	7.7
SD 21	400	32.0	22.5	187	206	420	7.6
SD 23	440	33.2	24.0	187	206	420	7.4
SDH 13	480	42.6	29.0	145	206	710	10.9
SDH 15	560	45.6	32.5	145	206	710	10.5
SDH 17	640	57.0	38.0	210	191	710	15.2
SDH 19	720	59.5	41.5	210	191	710	14.4
SDH 21	800	62.5	44.5	210	191	710	14.4
SDH 23	880	71.0	48.0	210	233	710	18.4
SDH 25	960	73.5	51.6	210	233	710	17.6
SDH 27	1040	76.0	55.0	210	233	710	16.8
SDH 29	1120	84.0	58.0	210	275	710	20.8
SDH 31	1200	87.0	61.5	210	275	710	20.4
SDH 33	1280	89.5	64.5	210	275	710	20.0
SDH 35	1360	92.5	68.0	210	275	710	19.6
SDH 37	1440	126	80.0	218	368	675	36.8
SDH 39	1520	127	83.5	218	368	675	34.8
SDH 41	1600	128	86.0	218	368	675	33.1
SDH 43	1680	129	90.5	218	368	675	30.8
SDH 45	1760	130	93.5	218	368	675	29.2
SDH 47	1840	130	96.6	218	368	675	24.8
SDH 49	1920	131	100	218	368	675	27.1
SDH 51	2000	150	105	218	448	687	36.0
SDH 53	2080	152	108	218	448	687	35.2
SDH 55	2160	154	112	218	448	687	33.6
SDH 57	2240	156	115	218	448	687	32.8
SDH 59	2320	158	118	218	448	687	31.5

Electrical Characteristics

- ✚ NOMINAL VOLTAGE: 2 V/cell
- ✚ INTERNAL RESISTANCE: SD range: 0.13/C₁₀ (Ohm); SDH range: 0.23/C₁₀ (Ohm)
- ✚ SHORT CIRCUIT CURRENT: SD range: 16 x C₁₀ (A); SDH range: 10 x C₁₀ (A)
- ✚ FLOAT CHARGE AT 20°C: 2.23 V/cell
- ✚ BOOST CHARGE: 2.40 V/cell with a maximum current of 0.15 x C₁₀ (A)

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