

# FIAMM

# SD - SDH

range



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 CHARACTERISTICS

- ▶ **Positive plates:** pasted plate construction with grids cast from lead selenium alloy
- ▶ **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 896 part 1
- ▶ BS 6290



## PRODUCT FEATURES

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

Industrial Standby Batteries



# SD - SDH range

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

## ELECTRICAL CHARACTERISTICS

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