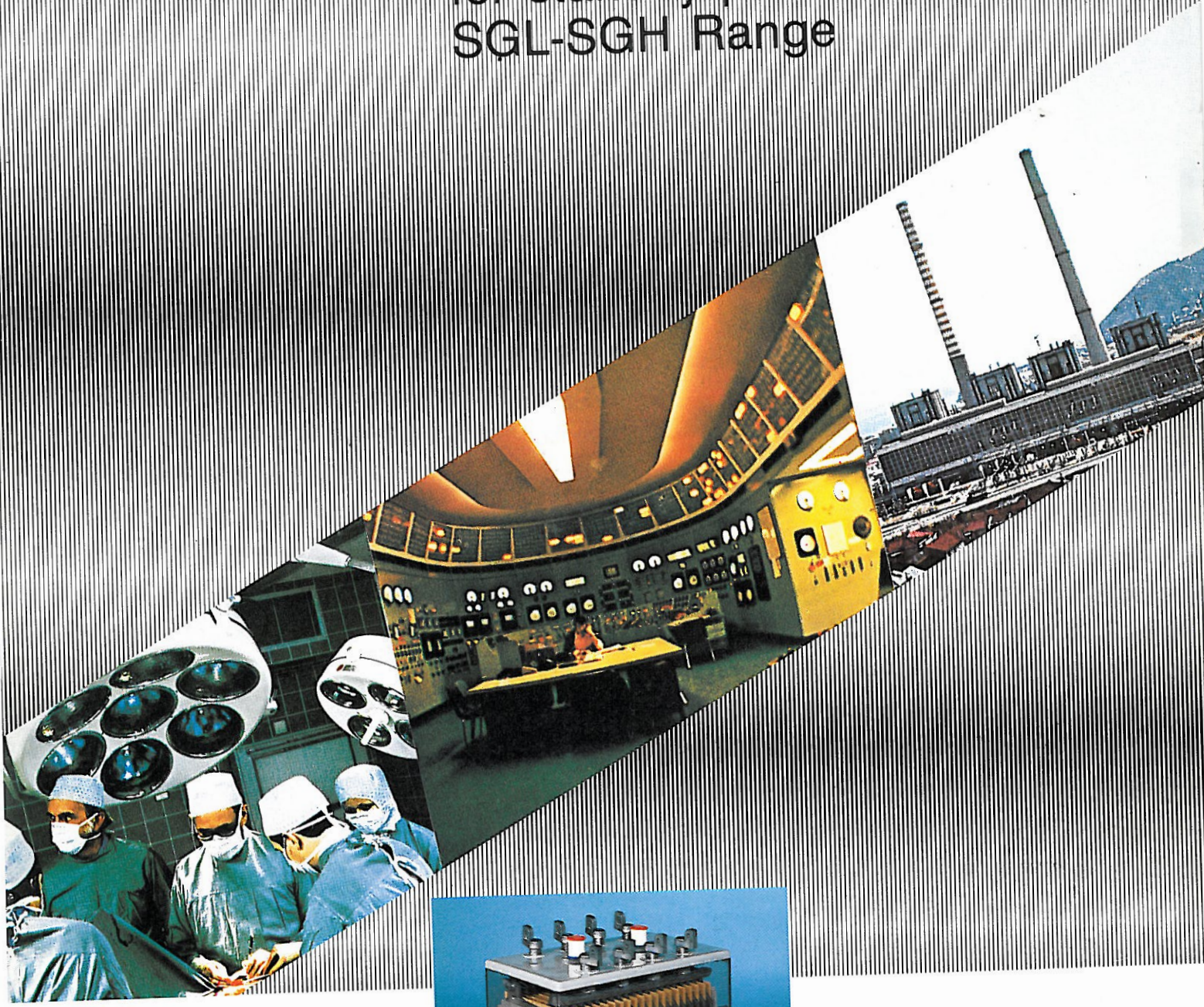


High performance planté cells  
in enclosed containers  
for standby power  
SGL-SGH Range



Authorised reseller:



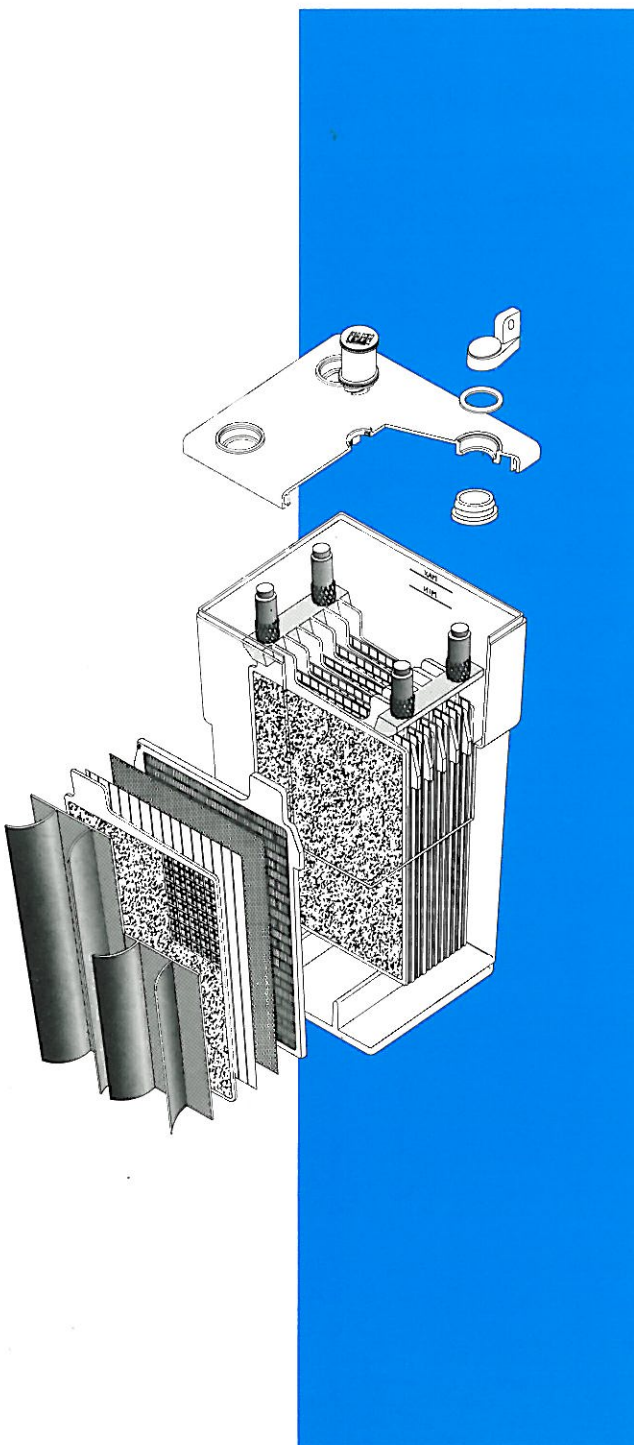
**FIAMM**  
+ -



FIAMM High Performance Planté cells are designed to give long, trouble-free service with a life expectancy of up to 25 years on float or trickle charge. These cells generally comply with B.S. and D.I.N. specifications.

Thanks to their High Rate Performance they are particularly suitable for stand-by power in data processing systems, Switch and Circuit Breaker Tripping, Gas Turbine Starting operations, etc. etc.





### **Planté positive plates**

Cast from pure lead to ensure there is no fall-off in capacity throughout their long life.

### **Negative plates**

Of rugged pasted grid construction with a service life compatible with the positive plates.

### **Separators**

Microporous separators giving maximum electrolyte utilisation whilst retaining minimum internal resistance.

### **Cell containers**

Injection moulded from high quality transparent S.A.N. (styrene acrylonitrile) giving max transparency together with very high insulating properties.

### **Cell lids**

Moulded from plastic material they are fastened to the cell containers in an electrolyte-proof manner.

### **Vent plugs**

Effectively prevent acid spray from the cell when "gassing" during boost charge. They are provided with explosion preventing (ceramic) plugs with bayonet lock.

### **Cell pillars and connectors**

Intercell connectors are of lead plated copper in order to keep electrical resistance as low as possible.

### **Electrolyte**

It consists of diluted sulphuric acid with a specific gravity of  $1.22 \pm 0.01 \text{ Kg/dm}^3$  at  $20^\circ\text{C}$ .

For export shipments it will be supplied in plastic drums duly packed for overseas freight.

## Nominal voltage

The nominal voltage is 2 volts per cell. On discharge, the recommended final voltage at which the discharge should be terminated depends on the discharge rate.

## Capacity

The  $C_{10}$  rated capacity is the capacity available in ampere hours at the 10 hour rate of discharge at 20°C.

## Maximum short circuit current

For fully charged cells and without the voltage losses associated with connectors.

- SGL cells =  $20 \times C_{10}$  Amps
- SGH cells =  $16 \times C_{10}$  Amps

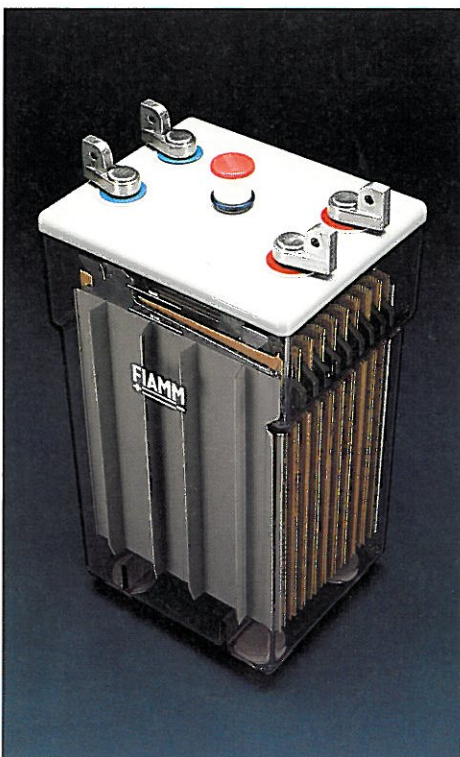
## Internal resistance

For fully charged cells:

- SGL cells =  $0.1 \times 1/C_{10}$  Ohm
- SGH cells =  $0.13 \times 1/C_{10}$  Ohm

## Charging

- Float voltage charging to maintain battery in fully charged condition: 2.23 V.p.c.
- Boost voltage (IU Method): 2.30/2.40 V/Cell
- Maximum charge current:
  - 15% of battery Ah capacity (initial)
  - 4% of battery Ah capacity (final).

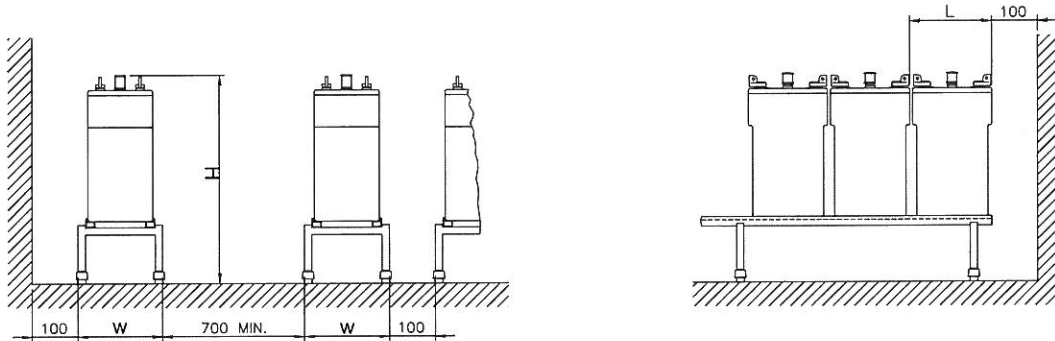


## SGL-SGH Range

(Cells fully comply to DIN Standards 40738)

CELL TYPE	DIN TYPE	NOMINAL CAPACITY in Ah at 20° C				DIMENSIONS (mm)			WEIGHT (kg)		ELECTROLYTE VOLUME (litres)
		10 hrs rate at 1.80 VPC	5 hrs rate at 1.80 VPC	3 hrs rate at 1.80 VPC	1 hrs rate at 1.70 VPC	Length	Width	Height (Total)	with electrolyte	without electrolyte	
SGL 7D	3 GroE 75	75	66	60	45	153	182	413	17.5	10.9	5.4
SGL 9D	4 GroE 100	100	88	80	60	153	182	413	19.7	13.3	5.2
SGL 11D	5 GroE 125	125	110	100	75	153	182	413	21.9	15.7	5.1
SGL 13D	6 GroE 150	150	132	120	90	153	182	413	24.1	18.1	4.9
SGL 15D	7 GroE 175	175	154	140	105	153	182	413	26.3	20.5	4.8
SGL 17D	8 GroE 200	200	176	160	120	228	182	413	33.2	23.8	7.7
SGL 19D	9 GroE 225	225	198	180	135	228	182	413	35.4	26.2	7.5
SGL 21D	10 GroE 250	250	220	200	150	228	182	413	37.6	28.6	7.4
SGL 23D	11 GroE 275	275	242	220	165	228	182	413	39.8	31.0	7.2
SGL 25D	12 GroE 300	300	264	240	180	228	182	413	42	33.4	7.0
SGL 27D	13 GroE 325	325	286	260	195	340	182	413	52.5	38.4	11.6
SGL 29D	14 GroE 350	350	308	280	210	340	182	413	54.6	40.8	11.3
SGL 31D	15 GroE 375	375	330	300	225	340	182	413	56.7	43.2	11.1
SGL 33D	16 GroE 400	400	352	320	240	340	182	413	58.9	45.6	10.9
SGL 35D	17 GroE 425	425	374	340	255	340	182	413	61	48.0	10.6
SGL 37D	18 GroE 450	450	396	360	270	340	182	413	63	50.4	10.3
SGH 11D	5 GroE 500	500	440	400	300	328	268	605	96	64	26.6
SGH 13D	6 GroE 600	600	528	480	360	328	268	605	106	73	26.4
SGH 15D	7 GroE 700	700	616	560	420	328	268	605	114	82	26.2
SGH 17D	8 GroE 800	800	704	640	480	328	268	605	123	92	25.4
SGH 19D	9 GroE 900	900	792	720	540	328	268	605	132	102	24.6
SGH 21D	10 GroE 1000	1000	880	800	600	328	268	605	141	112	23.8
SGH 23D	11 GroE 1100	1100	968	880	660	328	268	605	150	122	23.0
SGH 25D	12 GroE 1200	1200	1056	960	720	328	348	605	174	135	32.0
SGH 27D	13 GroE 1300	1300	1144	1040	780	328	348	605	182	144	31.1
SGH 29D	14 GroE 1400	1400	1232	1120	840	328	348	605	191	154	30.3
SGH 31D	15 GroE 1500	1500	1320	1200	900	328	348	605	199	163	29.5
SGH 33D	16 GroE 1600	1600	1408	1280	960	328	438	605	225	176	40.2
SGH 35D	17 GroE 1700	1700	1496	1360	1020	328	438	605	234	186	39.3
SGH 37D	18 GroE 1800	1800	1584	1440	1080	328	438	605	242	195	38.5
SGH 39D	19 GroE 1900	1900	1672	1520	1140	328	438	605	251	205	37.7
SGH 41D	20 GroE 2000	2000	1760	1600	1200	328	438	605	259	214	36.9
SGH 43D	21 GroE 2100	2100	1848	1680	1260	328	529	605	295	237	47.5
SGH 45D	22 GroE 2200	2200	1936	1760	1320	328	529	605	303	246	46.7
SGH 47D	23 GroE 2300	2300	2024	1840	1380	328	529	605	312	256	45.5
SGH 49D	24 GroE 2400	2400	2112	1920	1440	328	529	605	320	265	45.1
SGH 51D	25 GroE 2500	2500	2200	2000	1500	328	574	605	337	278	48.4
SGH 53D	26 GroE 2600	2600	2288	2080	1560	328	574	605	346	288	47.5

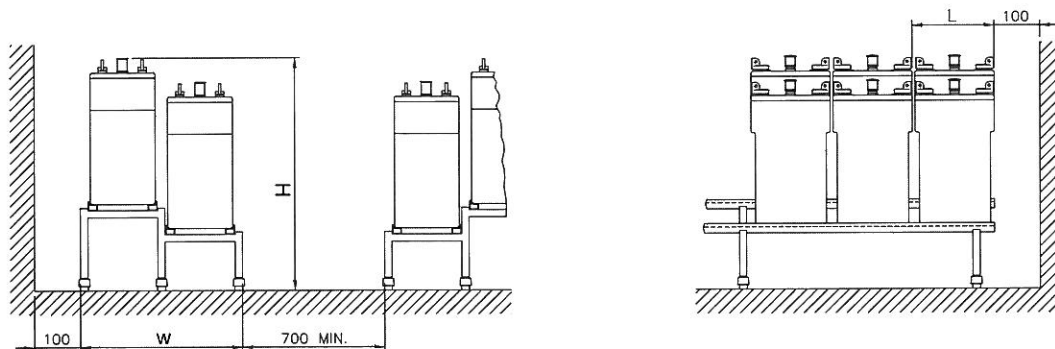
## One step rack



Cell type	L (mm)	W (mm)	H (mm)
SGL 7D - SGL 15D	163	250	660
SGL 17D - SGL 25D	238	250	660
SGL 27D - SGL 37D	348	250	660
SGH 11D - SGH 23D	340	350	850
SGH 25D - SGH 31D	340	450	850
SGH 33D - SGH 41D	340	550	850
SGH 43D - SGH 53D	340	650	850

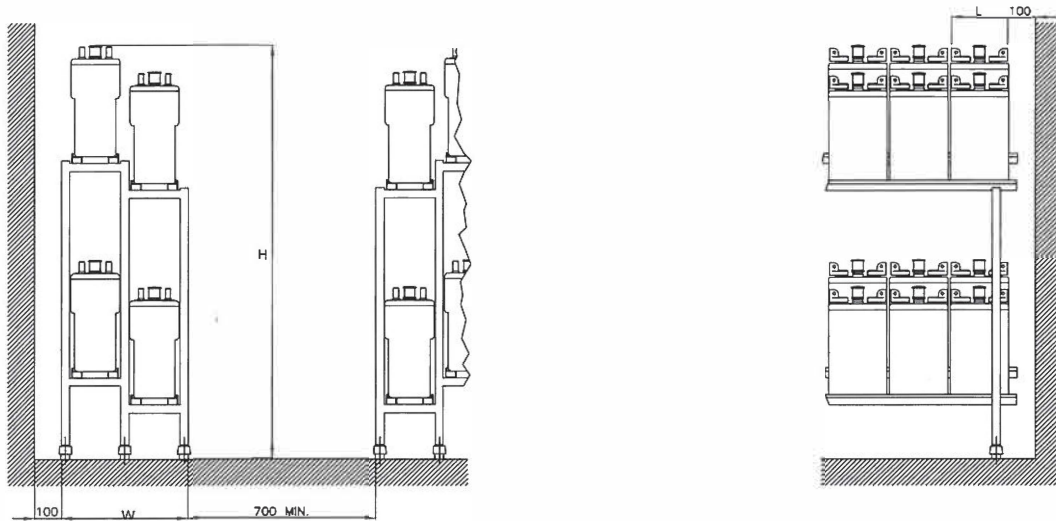
## Two steps rack

(available only up to SGH 31 D type)



Cell type	L (mm)	W (mm)	H (mm)
SGL 7D - SGL 15D	163	470	760
SGL 17D - SGL 25D	238	470	760
SGL 27D - SGL 37D	348	470	760
SGH 11D - SGH 23D	340	670	950
SGH 25D - SGH 31D	340	870	950

**Two tiers - two steps rack**  
 (available only up to SGH 23 D type)



Cell type	L (mm)	W (mm)	H (mm)
SGL 7D - SGL 15D	163	470	1540
SGL 17D - SGL 25D	238	470	1540
SGL 27D - SGL 37D	348	470	1540
SGH 11D - SGH 23D	340	670	1820

For special battery arrangements please consult FIAMM.

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