

## STH Ni-Cd battery range

### High power for hybrid electric vehicles and automated guide vehicles

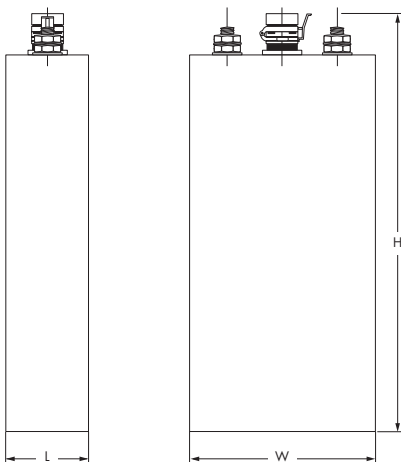
These advanced Ni-Cd batteries provide an ideal balance of mass, power and energy for vehicles combining a conventional combustion engine in tandem with an electric motor to reduce the consumption of gasoline and minimize air pollution.

They are also used as power backup batteries for trolley buses or light rail vehicles (LRV) when running without catenaries or skirting obstacles.



#### STH range

STH type	Rated capacity $C_5$ (Ah)	Cell dimensions (mm)			Approx. weight (kg)	Electrolyte reserve (cm <sup>3</sup> )
		H	W	L		
STH 160B	16	196	86	46.5	1.1	60
STH 210B	21	196	86	46.5	1.1	60
STH 300B	29	196	86	61	1.5	95
STH 360B	36	196	86	86	1.9	130
STH 470B	47	196	86	86	2.0	130
STH 210	21	276	86	46.5	1.6	160
STH 240	24	276	86	46.5	1.7	160
STH 300	30	276	86	61	2.1	215
STH 340	34	276	86	61	2.1	215
STH 400	40	276	86	86	2.7	325
STH 450	45	276	86	86	2.9	315
STH 520	52	276	86	86	2.9	315
STH 600	60	306	86	86	3.3	315
STH 700	70	306	86	86	3.5	315
STH 800	80	306	86	86	3.3	315
STH 900	90	339	166	78	5.6	370
STH 1000	100	339	166	78	5.9	365
STH 1200	115	339	166	78	6.1	360
STH 1300	130	339	166	87	6.8	410
STH 1500	150	339	166	103	8.0	495
STH 1700	170	339	166	117	9.5	570
STH 1900	190	339	166	117	9.8	565



### Applications

Trolley buses, trucks, light rail vehicles (LRV), automated guided vehicles (AGV), etc.

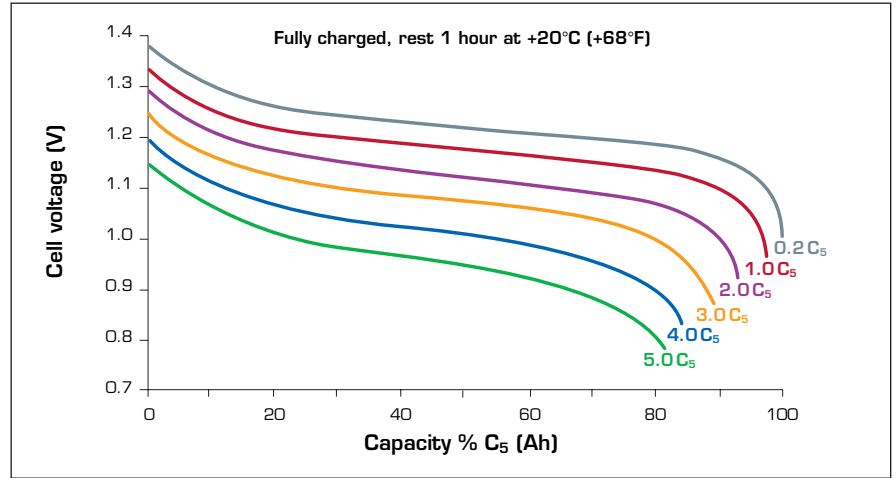
### Advantages

- Low maintenance
- Reliability
- Permanent availability of power
- Low km/passenger cost ratio
- Adapted to extreme temperatures  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ).
- Centralized water filling system
- Rapid recharge
- Fully recyclable

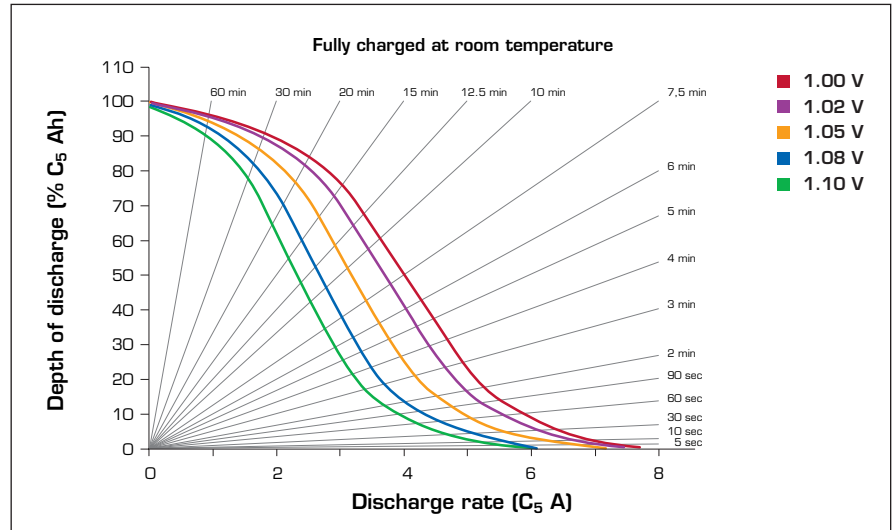
### Technology

- Sintered positive electrode
- Plastic-bonded negative electrode.

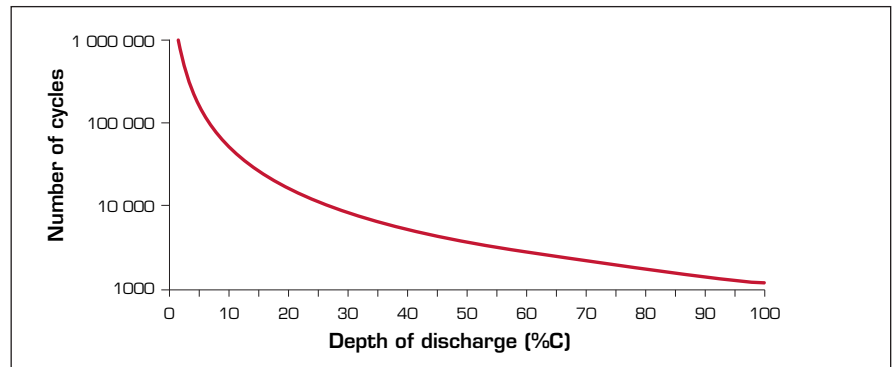
### Typical discharge at $+20^{\circ}\text{C}$ ( $+68^{\circ}\text{F}$ )



### Available capacity versus end voltage and discharge duration



### Cycle life at $+20^{\circ}\text{C}$ ( $+68^{\circ}\text{F}$ )



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