



## Battery Range Summary

The DataSafe® HX range of valve regulated lead acid batteries has been designed to offer superior solutions for the Uninterruptible Power Supply (UPS) and Information Technology markets. DataSafe HX batteries are the ideal source of power to protect vital systems and incorporates select design features that maximise reliability while ensuring superior performance and an excellent service life.

DataSafe HX batteries are designed using proven gas recombination technology that removes the need for regular water addition by controlling the evolution of hydrogen and oxygen during charging. The use of gas recombination technology for lead acid batteries has totally changed the concept of standby power. This technology provides the user with the freedom to use lead acid batteries in a wide range of applications.

Built on advanced electrochemistry and backed by many years experience in battery technology and manufacture, DataSafe HX monoblocs have been specifically developed for high discharge rate applications.

### Features and Benefits

- Specifically developed for high-rate discharge UPS applications
- 6 & 12 volt monoblocs
- 23 to 790 Watts/cell sizes (15 min. rate to 1.67Vpc at 25°C)
- High volumetric energy density
- Conforms to industry standard dimensions
- Strong ABS plastic, flame retardent UL 94V-0
- Classified as "Long Life (10-12 years)" (Eurobat 2015)
- Strong ABS plastic, flame retardent in selected range



## Construction

- High performance positive plates designed for long life and efficient recharge
- Negative plates provide perfect balance with positive plates to ensure optimum recombination efficiency
- Separators in low resistance microporous glass fibre. The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage
- Electrolyte - high grade dilute sulphuric acid absorbed into separator material
- Containers and lids in strong, highly impactresistant ABS plastic
- High integrity dual pillar seal design to ensure leakfree operation
- Self regulating pressure relief valves - prevent ingress of atmospheric oxygen
- A strong, detachable handle, designed to provide maximum flexibility during installation, is supplied with every pallet/case

## Installation and Operation

- Monoblocs are designed for installation in cabinets or on stands, close to the point of use. A separate battery room is not necessary
- It is recommended that DataSafe® monoblocs are installed on their base
- Recommended float charge voltage:  
2.280Vpc at 20°C (68°F)  
2.265Vpc at 25°C (77°F)
- Up to six months shelf life
- Reduced maintenance: no water addition required
- Operating temperature range:  
-20°C to +50°C

## Standards

- UL listing: file numbers MH16464 for 12HX25 - 12HX150 and MH12544 for 12HX205 - 6HX800
- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- Classified as "Long Life (10-12 years)" according to Eurobat Guide 2015
- Approved to be shipped as non-spillable cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and ICAO (International Civil Aviation Organisation)
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

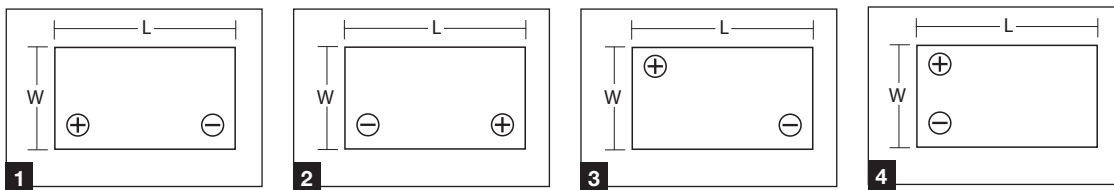
## General Specifications

DataSafe® HX Battery Type	Nomial Voltage (V)	Watts/Cell (Wpc) 15min/1.67Vpc at 25°C	Nominal Capacity (Ah) C <sub>10</sub> /1.80Vpc at 25°C	Nominal Dimensions (mm)			Typical Weight (kg)	Short Circuit Current (A)	Max Discharge Current (Amps-2 min rate)	Internal Resistance (mΩ)	Terminal Layout	Terminal Drawing
				Length	Width	Height						
12HX25	12	23	4.7	90	70	107	2.0	300	41	16.5	1	A
12HX35	12	36	7.3	151	65	100	2.8	500	62	13.2	4	A
6HX50	6	50	11	151	50	99	2.1	720	93	7.7	1	A
12HX50	12	50	11	152	99	99	4.1	720	93	11.5	4	A
12HX80	12	80	16	181	76	167	6.4	1000	140	8.5	2	B
12HX105	12	100	21	166	175	125	10.0	1500	171	7.1	2	B
12HX135	12	135	28	196	130	169	11.8	1800	238	5.6	1	B
12HX150	12	150	33	197	165	170	14.5	2400	277	5.0	2	C
12HX205	12	204	45	226	140	206	19.5	2775	439	4.5	1	C
12HX300a**	12	291	72	261	174	210*	25.5	2277	-	5.4	1	C
12HX400a**	12	396	99	341	173	215*	33.2	3040	-	4.1	1	C
12HX540a**	12	540	133	341	173	275*	44.5	3302	-	3.8	1	C
6HX800**	6	790	196	341	173	215*	33.2	5841	1272	1.0	3	C

\*Height to top of the terminal

\*\*Flame retardent UL 94V-0

## Terminal Layouts



## Terminal Drawings

