



## Battery Range Summary

The DataSafe® HX range of Valve Regulated Lead Acid (VRLA) 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.

### Features & Benefits

- Developed for UPS applications
- 23 to 540 Watts/cell sizes (15 min. rate to 1.67Vpc at 25°C)
- High power density
- Optimum footprint and volume efficiency
- Long design life: 10 years at 20°C
- Proven VRLA AGM technology

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 over 125 years experience in battery technology and manufacture, DataSafe HX monoblocs have been specifically developed for high discharge rate applications.

**Construction**

- Electrochemistry optimised for high rate discharge applications
- High performance positive plate grids designed to resist corrosion, prolong active life and for efficient recharge
- Negative plates provide perfect balance with the positive plates to ensure optimum recombination efficiency
- Low resistance microporous absorbed glass mat (AGM) separator. The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage
- Containers and lids in highly resistant polymer. Flame retardant as standard
- High integrity terminals designed for maximum conductivity

- High integrity, leak-resistant post seal design for long life
- Self-resealing, low pressure non-return valve prevents ingress of atmospheric oxygen, with flame-arresting vents

**Installation & Operation**

- Monoblocs are designed to be installed on their base. Consult your local EnerSys® representative before installing in any other orientation
- Recommended float charge voltage: 2.25 - 2.28Vpc at 25°C
- Operating temperature range: 12HX25 - 12HX150: -20°C to +50°C  
12HX205 - 12HX540: -30°C to +50°C  
Recommended: 20°C to 25°C
- Up to six months shelf life (at 25°C)

**Standards**

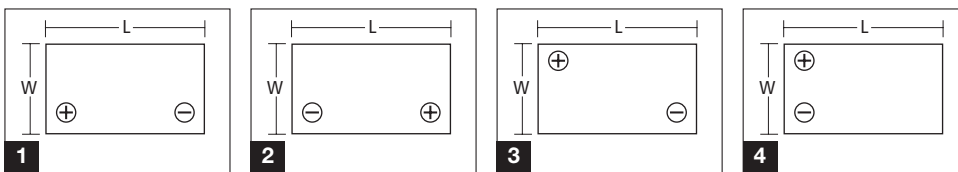
- UL listing: file numbers MH16464 for 12HX25 - 12HX150 and MH12544 for 12HX205 - 12HX540
- Batteries must be installed in accordance with the IEC 62485-2 standard and national regulations
- Classified as “Long Life” (10-12 years) according to Eurobat guide
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR
- The management systems governing the manufacture of DataSafe® HX products are ISO 9001 and ISO 14001 certified

**General Specifications**

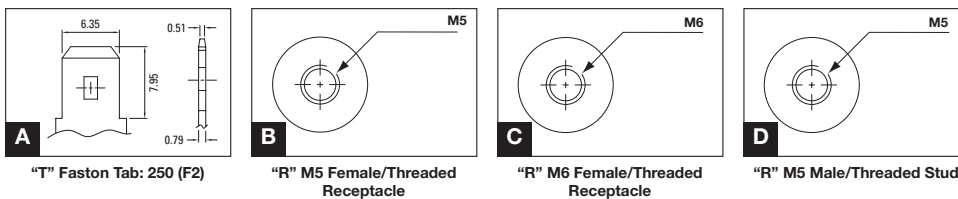
Battery Type <sup>(1)</sup>	Nominal Voltage (V)	Watts/Cell (Wpc)		Nominal Dimensions (mm) <sup>(2)</sup>			Typical Weight (kg)	Short Circuit Current (A)	Internal Resistance (mΩ) <sup>(4)</sup>	Layout	Terminal
		15min to 1.67Vpc @ 25°C	C10 rate to 1.80Vpc @ 20°C	Length	Width	Height <sup>(3)</sup>					
12HX25	12	23	4.5	90	70	107	2.0	300	16.5	1	A
12HX35	12	36	7.6	151	65	100	2.8	500	13.2	4	A
12HX50	12	54	11	152	99	99	4.1	720	12.2	4	A
12HX80	12	80	18	181	76	167	6.4	1000	8.5	2	B
12HX105	12	106	24	166	175	125	10.0	1500	7.1	2	B
12HX100S	12	107	27	166	125	175	9.2	1600	7.0	2	D
12HX135	12	135	30	196	130	169	11.8	1800	5.6	1	B
12HX150	12	160	37	197	165	170	14.5	2400	5.0	2	C
12HX205	12	205	42	226	140	206	19.5	2775	4.5	1	C
12HX300	12	284	68	259	175	208	27.2	3175	3.9	1	C
12HX330	12	336	80	300	173	213	32.2	3700	3.4	1	C
12HX400	12	381	91	338	173	211	36.3	4225	3.0	1	C
12HX505	12	506	117	338	173	272	46.7	4510	2.8	1	C
12HX540	12	540	119	338	173	272	48.1	4775	2.6	1	C

Note:  
 1) Add “FR” after Battery Type for flame retardant versions, e.g. “12HX25FR”  
 2) All dimensions given are +/-2mm (0.08 in)  
 3) Height includes terminal  
 4) Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline measurement

**Layout**



**Terminal**



**EnerSys World Headquarters**  
 2366 Bernville Road  
 Reading, PA 19605, USA  
 Tel: +1-610-208-1991 /  
 +1-800-538-3627

**EnerSys EMEA**  
 EH Europe GmbH  
 Baarerstrasse 18  
 6300 Zug  
 Switzerland

**EnerSys Asia**  
 152 Beach Road  
 Gateway East Building #11-08  
 Singapore 189721  
 Tel: +65 6416 4800

Contact: \_\_\_\_\_