data safe® HX

## 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.

The 12HX380 and 12HX330e monoblocs are just two of the latest additions to the highly successful, superior power density DataSafe HX battery range from EnerSys®. Built on advanced electrochemistry and backed by over 100 years experience in battery technology and manufacture, these monoblocs have been specifically developed for high discharge rate applications.

For power density, space optimisation and reliability, there is no substitute to DataSafe HX batteries.

## Features & Benefits

- **Specifically developed for UPS applications**
- **6 & 12 volt monoblocs**
- **23 to 780 Watts/cell sizes (15 min. rate to 1.67Vpc at 25°C)**
- **High power density**
- **Optimum footprint and volume efficiency**
- **Long design life**
- **Proven VRLA AGM technology**

EnerSys®
Power/Full Solutions

RESERVE POWER

## 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
- Separators in low resistance microporous glass fibre. The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage
- Containers and lids in highly resistant polymer
- Electrolyte - high grade dilute sulphuric acid absorbed into separator material
- High integrity terminals designed for maximum conductivity
- High integrity, leak-resistant post seal design for long life
- Self regulating pressure relief valves - prevent ingress of atmospheric oxygen

## 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: -20°C to +50°C (20°C - 25°C recommended)
- Up to six months shelf life

## Standards

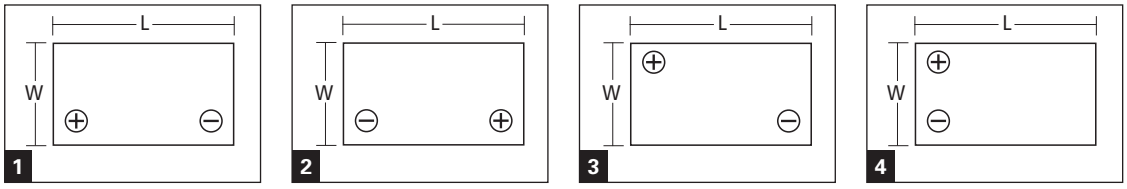
- UL listing: file numbers MH16464 for 12HX25 - 12HX150, MH15740 for 12HX330e and 12HX380, MH12544 for 12HX205 - 6HX800
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR
- Manufactured in EnerSys® ISO 9001:2000 and ISO 14001:2004 certified production facilities

## General Specifications

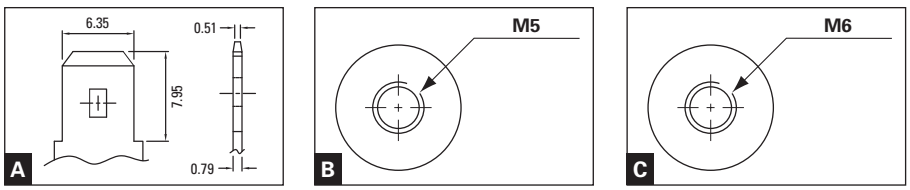
| DataSafe® HX Battery Type | Nominal Voltage (V) | Watts/Cell (Wpc) 15min/1.67Vpc at 25°C | Nominal Capacity (Ah) $C_{10}$/1.80Vpc at 25°C | Nominal Dimensions (mm) Length | Width | Height | Typical Weight (kg) | Short Circuit Current (A) | Max. Discharge Current (Amps-2 min rate) | Internal Resistance (mΩ) | Terminal Layout | Terminal Drawing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12HX25 | 12 | 23 | 5.0 | 90 | 70 | 107 | 2.0 | 300 | 41 | 16.5 | 1 | A |
| 12HX35 | 12 | 36 | 7.0 | 151 | 65 | 100 | 2.8 | 500 | 62 | 13.2 | 4 | A |
| 6HX50 | 6 | 53 | 11 | 151 | 50 | 99 | 2.1 | 720 | 93 | 6.1 | 1 | A |
| 12HX50 | 12 | 53 | 11 | 152 | 99 | 99 | 4.1 | 720 | 93 | 12.2 | 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 |
| 12HX300 | 12 | 284 | 72 | 259 | 175 | 208 | 27.2 | 3175 | 503 | 3.9 | 1 | C |
| 12HX330e | 12 | 330* | 80* | 302 | 175 | 227 | 32.5 | 2240 | 586 | 5.5 | 1 | C |
| 12HX330 | 12 | 336 | 84 | 300 | 173 | 213 | 32.2 | 3700 | 586 | 3.4 | 1 | C |
| 12HX380 | 12 | 380* | 90* | 302 | 175 | 227 | 35.0 | 2400 | 765 | 5.2 | 1 | C |
| 12HX400 | 12 | 381 | 93 | 338 | 173 | 211 | 36.3 | 4225 | 670 | 3.0 | 1 | C |
| 12HX505 | 12 | 506 | 123 | 338 | 173 | 273 | 46.7 | 4510 | 913 | 2.8 | 1 | C |
| 12HX540 | 12 | 540 | 126 | 338 | 173 | 273 | 48.1 | 4775 | 961 | 2.6 | 1 | C |
| 6HX800 | 6 | 780 | 196 | 340 | 173 | 211 | 36.3 | 6200 | 1272 | 1.0 | 3 | C |

** Data based at 20°C*

## Terminal Layouts




## Terminal Drawings




**Faston Tab: 250** | **Female Thread** | **Female Thread**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