data safe® HX

# 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.

## Features & Benefits

- 12V, 286 - 840watts per cell (15min/1.67Vpc/25°C)
- Specifically designed for high-rate discharge applications conforms to industry standard dimensions
- High volumetric energy density
- Strong ABS plastic, flame retardent UL94 V-0
- Classified as "Long Life" (Eurobat)
- Manufactured in ISO 9001 and ISO 14001 certified production facilities

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 12HX300a, 12HX400a, 12HX410F, 12HX540a, and 12HX840a. are the latest additions to the highly successful, superior power density DataSafe HX battery range from EnerSys®. Built on advanced electrochemistry and backed by many years of experience in battery technology and manufacture, these monoblocs have been specifically designed for high discharge rate applications.
For high power density, performance and reliability, there is no substitute to DataSafe HX batteries.

EnerSys®
Power/Full Solutions

Visit us at www.enersys.com

## 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 impact-resistant ABS plastic
- High integrity dual pillar seal design to ensure leak-free operation
- Self regulating pressure relief valves - prevent ingress of atmospheric oxygen
- A strong, detachable handle or integrated handle to assist during installation.

## Installation & 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

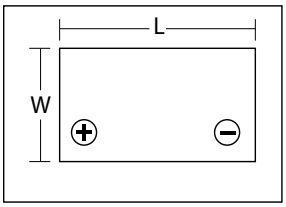
- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- Classified as "Long Life" (10/12 years) according to Eurobat guide 2015
- Approved to be shipped as non-spillable cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and ICAO (International Civil Aviation Organisation)
- Manufactured in ISO 9001 and ISO 14001 certified production facilities

## General Specifications

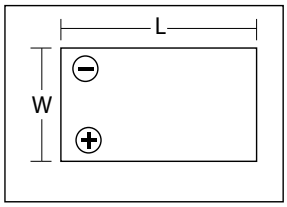
| Battery Type | Nominal Voltage (V) | Nominal Capacity (Ah) | | Nominal Dimensions (mm) | | | Typical Weight (Kg) |
|---|---|---|---|---|---|---|---|
| | | Watts/Cell (Wpc) 15min/1.67Vpc at 25˚C | Norminal Capacity (Ah) C10/1.80Vpc at 25˚C | Length | Width | Height | |
| 12HX300a | 12 | 290 | 72 | 261 | 174 | 210 | 25.5 |
| 12HX400a | 12 | 395 | 99 | 341 | 173 | 215 | 33.2 |
| 12HX410F | 12 | 410 | 105 | 394 | 111* | 286 | 34.3 |
| 12HX540a | 12 | 540 | 132 | 341 | 173 | 275 | 44.5 |
| 12HX840a | 12 | 840 | 235 | 497 | 259 | 240 | 76.5 |

Note: *±2mm

## Terminal Layouts

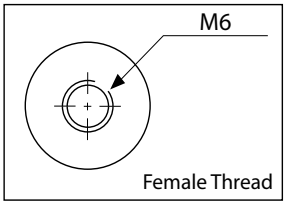



12HX300a
12HX400a
12HX540a

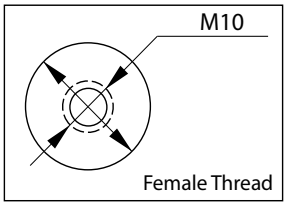



12HX410F
12HX840a

## Terminal Drawings




12HX300a
12HX400a
12HX410F
12HX540a




12HX840a

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