



Telecommunications

## Battery Range Summary

The DataSafe® HX range of valve regulated lead acid batteries has been designed to offer competitive solutions for the global telecommunications and information technology markets, which demand the highest levels of security and reliability. The DataSafe HX incorporates select design features that maximize reliability, while ensuring superior performance and an excellent service life.

Gas recombination technology for valve regulated lead acid batteries has totally changed the concept of standby power. The minimal level of gas evolution allows battery installation in cabinets or telecom equipment racks, in offices or near main equipment, maximizing space utilization and reducing storage and maintenance costs.

The DataSafe HX delivers superior performance, occupying less space than conventional standby power batteries. Thick, ribbed plastic containers and covers provide high mechanical strength and excellent safety features.

### Features and Benefits

- Positive and negative plate grids made of lead-calcium-tin alloy for long life and efficient recharge
- Flame retardant case (UL94) and cover to meet UL1778
- Individual flame arresting cell vents
- DataSafe HX top terminated battery containers and covers are hermetically sealed to provide leak resistance over the life of the product
- AGM separators - The electrolyte is completely absorbed into the separator
- High performance brass threaded receptacle.
- Increased energy density
- 100% initial battery capacity



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- High performance brass threaded receptacle and bolt terminal
- Increased energy density
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## Construction

- High conductivity terminals. Brass insert with threaded receptacle and bolt terminal for maximum conductivity and ease of installation
- High integrity terminal seal. Compression grommet or dual welded/epoxy seal designed for long life
- Self-regulating relief valve. Low pressure non-return valve prevents ingress of atmospheric oxygen
- Rugged high performance positive plates. Grids designed to resist corrosion and prolong active life
- Balanced negative plates. Ensure optimum recombination efficiency
- Tough cell containers. Thick-wall plastic, highly resistant to shock and vibration. Flame retardant material
- Separators. Low resistance microporous Absorbant Glass Mat (AGM). The electrolyte is absorbed within this material

## Installation and Operation

- Normal operating temperature range: -22°F (-30°C) to 122°F (50°C)
- Float charging voltage: 2.25 - 2.28 Volts per cell at 77°F (25°C)
- Charging current: DataSafe® HX top terminated batteries can be safely recharged at high current rates when utilizing a constant voltage charger
- Storage time: DataSafe HX top terminated batteries can be stored for up to 6 months at 77°F (25°C) before a freshening charge is required. At higher temperatures this time interval will be reduced
- Torque specifications: 44 in-lbs (5 Nm) ± 5%
- DataSafe HX top terminated batteries are designed to be installed on their base. Consult your local EnerSys® dealer before installing in any other orientation

## Standards

- UL listing - File No MH12544
- Manufactured to EnerSys® standards in ISO 9001 registered production facilities worldwide
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR

## General Specifications

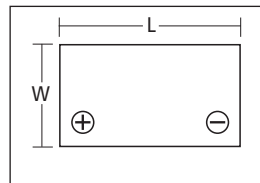
Cell Type	Nominal Voltage (V)	Nominal Ah	Watts/Cell	Nominal Dimensions						Typical Weight		Short Circuit Current (A)	Max Discharge Current (Amps-2 min rate)	Current Resistance (mΩ)**
		8hr rate to 1.75 volts/cell end voltage at 77°F (25°C)	@ 15 min. to 1.67 volts/cell end voltage at 77°F (25°C)	Overall Height*		Width		Length		lbs	kg			
12HX205	12	44	205	8.1	206	5.5	140	8.9	226	43.0	19.5	2775	439	4.5
12HX300	12	70	284	8.2	208	6.9	175	10.2	259	60.0	27.2	3175	503	3.9
12HX330	12	82	336	8.4	213	6.8	173	11.8	300	71.0	32.2	3700	586	3.4
12HX400	12	94	381	8.3	211	6.8	173	13.3	338	80.0	36.3	4225	670	3.0
12HX540	12	123	540	10.7	272	6.8	173	13.3	338	106.0	48.1	4775	961	2.6

\*Including Terminal

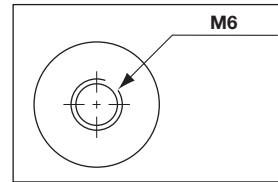
\*\* Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline measurement

All dimensions given are +/-0.08 in (2mm)

### Terminal Layout



### Terminal Drawing



M6 Threaded Receptacle