



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 Front Terminal batteries are the latest additions to the highly successful high power density range from EnerSys®. EnerSys engineers set out to develop true UPS batteries that would be space efficient and easy to maintain.

The 16HX550F-FR, 16HX800F-FR and 16HX925F-FR monoblocs are revolutionary 16V, front terminal designs, built on advanced electrochemistry and backed by over 125 years experience in battery technology and manufacture.

DataSafe HX front access batteries have been specifically developed for high discharge rate applications and are ideal for use in cabinets. Compared with traditional 12V top terminated batteries, the 16HX550F-FR, 16HX800F-FR and 16HX925F-FR batteries offer several significant advantages such as space savings, simplified installation, wiring and maintenance. In addition, these batteries are capable of scaling to larger capacities in order to minimise the number of strings in larger UPS systems.

For power density, space optimisation, easy installation and cost savings, there is no substitute to DataSafe HX Front Terminal batteries.

Features and Benefits

- Revolutionary 16V front terminal designs
- Specifically developed for UPS applications
- 550, 800 and 925 Wpc sizes
- High power density
- Optimum footprint and volume efficiency
- Complete front access
- Simplified installation, maintenance and replacement
- Scales easily to large capacity UPS systems



Construction

- High performance positive plates designed to resist corrosion and prolong active life
- 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 spills in case of accidental damage
- Containers and lids in flame retardant material, highly resistant to shock and vibration
- Electrolyte - high grade dilute sulphuric acid absorbed into separator material

- High integrity post seal design
- Self regulating pressure relief valves - prevent ingress of atmospheric oxygen

Installation & Operation

- DataSafe® HX Front Terminal batteries are designed for use in cabinets but can also be used on stands
- It is recommended that the 16HX550F-FR, 16HX800F-FR and 16HX925F-FR monoblocs are installed on their base
- Recommended float charge voltage: 2.25 - 2.28Vpc at 25°C

- Six months shelf life
- Operating temperature range: -20°C to +50°C

Standards

- UL listing - File number MH12544
- Classified as "Long Life" (> 10/12 years) according to Eurobat guide 2015
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR
- The management system governing the manufacture of DataSafe HX Front Terminal products is ISO 9001 certified

General Specifications

DataSafe® HX-FT Battery Types	Nominal Voltage (V)	Watts/Cell 15 min. rate to 1.67 volts at 25°C	Nominal Dimensions (mm)			Typical Weight (kg)	Short Circuit Current (A)	Internal Resistance (mΩ)
			Length	Width	Height			
16HX550F-FR	16	550	692	117	313	68.5	4070	4.1
16HX800F-FR	16	800	692	177	313	105.2	6415	2.6
16HX925F-FR	16	925	692	177	313	112.5	6950	2.4

16HX550F-FR - Watts Per Cell at 25°C

End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	926	700	556	453	382	332
1.63	910	694	556	453	382	332
1.65	898	688	554	453	382	332
1.67	884	680	550	452	382	332
1.70	859	665	543	446	380	332
1.75	802	632	517	430	370	324

16HX800F-FR - Watts Per Cell at 25°C

End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	1191	1032	827	691	590	516
1.63	1191	1013	818	686	590	516
1.65	1191	998	810	681	588	516
1.67	1191	981	800	674	584	515
1.70	1191	951	783	663	576	508
1.75	1113	889	742	636	576	493

16HX925F-FR - Watts Per Cell at 25°C

End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	1309	1163	934	765	649	570
1.63	1309	1153	934	765	649	570
1.65	1309	1144	930	765	649	570
1.67	1309	1133	925	762	649	570
1.70	1309	1111	913	752	646	570
1.75	1309	1056	870	726	630	557

Typical Outline Drawings

