



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.

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**FRONT TERMINAL  
MONOBLOCS**

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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 100 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 & 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
- 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
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR
- Manufactured in EnerSys® ISO 9001:2000 registered production facilities

## General Specifications

DataSafe® HX Battery Types	Nominal Voltage (V)	Watts/Cell		Nominal Dimensions						Typical Weight		Short Circuit Current (A)	Internal Resistance (mΩ)
		15 min. rate to 1.67 volts at 25°C (77°F)	15 min. rate to 1.67 volts at 25°C (77°F)	Length		Width		Height		kg	lbs		
				mm	inch	mm	inch	mm	inch				
16HX550F-FR	16	550	692	27.2	117	4.6	313	12.3	68.5	151	4070	4.1	
16HX800F-FR	16	800	692	27.2	177	7.0	313	12.3	105.2	232	6415	2.6	
16HX925F-FR	16	925	692	27.2	177	7.0	313	12.3	112.5	248	6950	2.4	

## 16HX550F-FR - Watts Per Cell at 25°C

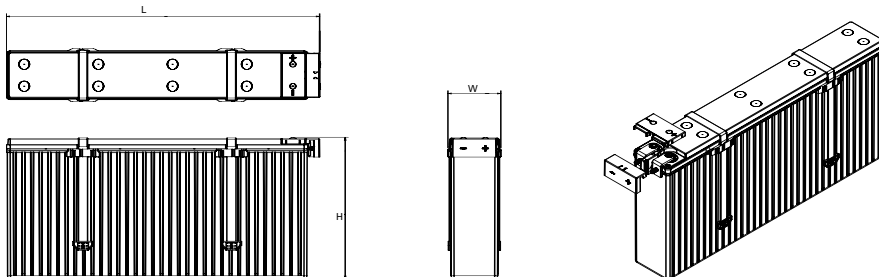
End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	925	701	557	453	382	332
1.63	909	694	556	453	382	332
1.65	897	689	554	453	382	332
1.67	885	681	550	452	382	332
1.70	860	665	543	446	380	332
1.75	799	629	517	430	369	324

## 16HX800F-FR - Watts Per Cell at 25°C

End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	1345	1029	828	691	589	516
1.63	1312	1011	818	685	589	516
1.65	1289	996	810	680	587	516
1.67	1259	980	800	674	582	514
1.70	1201	951	782	663	574	508
1.75	1103	888	740	634	554	493

## 16HX925F-FR - Watts Per Cell at 25°C

End Voltage	Standby Time (Minutes)					
	5	10	15	20	25	30
1.60	1350	1150	934	765	647	566
1.63	1350	1144	933	765	647	566
1.65	1350	1137	930	765	647	566
1.67	1350	1127	925	763	647	566
1.70	1349	1104	914	752	644	566
1.75	1302	1051	872	726	627	553



www.enersys-emea.com

**EnerSys**  
P.O. Box 14145  
Reading, PA 19612-4145  
USA  
Tel: +1-610-208-1991  
+1-800-538-3627  
Fax: +1-610-372-8613

**EnerSys Europe**  
Zurich, Switzerland

**EnerSys Asia**  
Guangdong, China  
Tel: +86-755-2689 3639

**EnerSys Ltd.**  
Rake Lane,  
Clifton Junction,  
Swinton, Manchester  
M27 8LR, UK  
Tel: +44 (0)161 794 4611  
Fax: +44 (0)161 727 3809

Contact:

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