

New 12V Front Terminal UPS Battery

**data safe**®

12HX680F-FR



Available exclusively from EnerSys®, the world leader in stored power solutions.

**data safe®**

FRONT TERMINAL

12HX680F-FR

## The DataSafe® 12HX680F-FR Front Terminal Battery.

EnerSys®, one of the world's largest and most innovative industrial battery manufacturers, is proud to introduce the new front terminal DataSafe® 12HX680F-FR to our line of Uninterruptable Power Supply (UPS) battery solutions. The DataSafe 12HX680F-FR battery offers the convenience and lower maintenance costs of a front terminal battery design but still delivers the power required for demanding high rate UPS applications. This latest offering now expands the UPS Valve Regulated Lead Acid (VRLA) front terminal offering to include both 12V (680 WPC) and 16V (550, 800 and 925 WPC) to cover a wide range of both KVA's and run times to meet all of your UPS needs.

### **Additional features of the DataSafe® 12HX680F-FR Front Terminal Battery:**

- Smaller footprint per kilowatt.
- Eliminates wasted headspace found in typical 12V top terminated designs.
- Simplifies installation.
- Easy and safer front terminal access simplifies maintenance.
- Improves reliability.
- No costly slide out trays required to obtain terminal access.
- Complete front access.



# Battery Specifications

Short Circuit Current	5960 Amperes
Float Voltage @ 77°F (25°C)	2.25 - 2.28 Volts per cell
Freshening (Equalization) Voltage	2.4 Volts per cell*
Maximum Discharge Current	1200 Amperes
Maximum Charging Current	40 Amperes
Self Discharge @ 77°F (25°C)	Less than 10% after 90 days
Recommended Operating Temperature	68°F (20°C) to 77°F (25°C)
Container and Cover Materials	UL94 Flame Retardant Polypropylene
Front Access Terminals	5/16-18 UNCThread

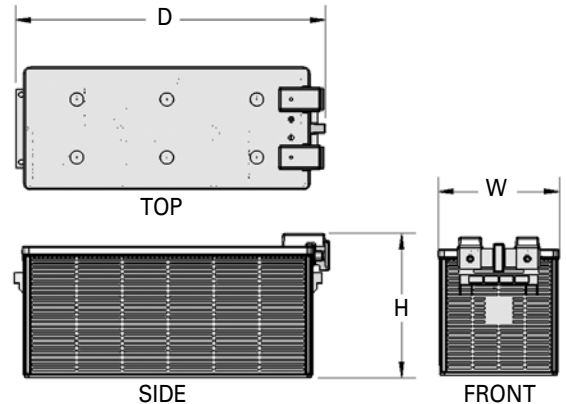
\*Not to exceed 24 hours @ 77°F (25°C)

### Accessories:

Batteries come standard with a stainless steel hardware package. The hardware package includes (2) each 5/16-18 UNC bolts, flat washers and lock washers. Additional accessories are available for purchase.

### Transportation:

Exempt from DOT, IATA & IMDG Transportation Restrictions when properly identified and packaged.



### BATTERY SPECIFICATIONS

Type	Watts/Cell			Nominal Dimension						Unpacked lbs	
	Number of Cells	Nominal Voltage (V)	15 min rate to 1.67 @77°F (25°C)	Length mm	Length in	Width mm	Width in	Height mm	Height in	kg	lbs
12HX680F-FR	6	12	680	541	21.3	213	8.4	246	9.7	67.1	148

### CONSTANT POWER

#### 12HX680F-FR

#### Discharge Rates in Watts per cell at 25°C (77°F)

End Volts	Standby Time (Minutes)																						
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	25	30	45	60	90	120	240
1.75	1073	1009	953	902	854	811	773	737	705	675	648	623	599	578	557	538	462	406	300	241	174	138	78
1.70	1151	1077	1011	953	901	853	810	770	734	702	671	644	619	595	574	554	473	413	303	241	174	138	78
1.67	1190	1110	1039	977	921	870	824	782	745	711	<b>680</b>	652	626	602	580	559	474	413	303	241	174	138	78
1.65	1213	1129	1055	990	931	878	830	788	750	716	684	655	629	604	581	559	474	413	303	241	174	138	78
1.63	1234	1146	1069	1000	939	885	836	793	754	719	687	656	629	604	581	559	474	413	303	241	174	138	78
1.60	1261	1167	1085	1013	949	892	841	797	756	720	687	656	629	604	581	559	474	413	303	241	174	138	78

### CONSTANT CURRENT

#### 12HX680F-FR

#### Discharge Rates in Amperes at 25°C (77°F)

End Volts	Standby Time (Minutes)											Standby Time (Hours)														
	1	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
1.85	538	462	358	291	245	212	187	168	153	141	130	121	113.8	83.5	66.5	55.6	48.0	37.8	31.4	27.0	23.7	21.1	18.9	17.2	14.6	8.03
1.80	701	539	409	327	272	234	206	184	167	153	141	131	122.4	88.9	70.3	58.6	50.5	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.75	843	606	449	354	291	248	217	193	174	159	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.73	888	631	463	362	296	252	220	195	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.71	931	654	475	368	300	255	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.69	974	676	485	373	304	256	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.67	1016	697	493	378	305	256	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.65	1057	716	500	381	305	256	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.63	1097	734	506	381	305	256	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15
1.60	1155	759	513	381	305	256	222	196	176	160	147	136	126.8	90.7	71.1	58.9	50.6	39.5	32.6	27.9	24.4	21.8	19.5	17.6	15.0	8.15



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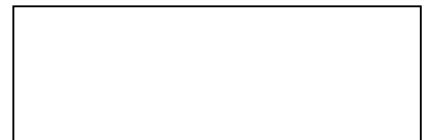
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