

# EnerSys®

Power/Full Solutions



**data safe<sup>®</sup>**  
HX

## Performance Data

**Discharge Currents (Amperes) to 1.60Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	322	207	158	129	94	76	70	64	54	39	31	22	17	14	9	7	4	
12HX400a	425	302	218	178	132	103	92	86	73	53	41	29	22	18	12	10	5	
12HX410F	330	269	230	179	133	110	102	92	76	58	45	30	24	19	13	11	6	
12HX540a	532	394	306	250	189	150	133	124	106	74	57	40	30	25	16	14	7	
12HX840a	666	572	475	383	276	222	204	187	163	116	92	66	51	44	29	24	13	

**Discharge Currents (Amperes) to 1.65Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	319	207	157	128	94	75	68	62	53	39	31	22	17	14	9	7	4	
12HX400a	422	298	216	176	131	102	92	86	73	52	41	29	22	18	12	10	5	
12HX410F	307	261	226	176	132	108	100	91	75	57	45	30	24	19	13	11	6	
12HX540a	493	381	305	247	187	148	132	124	105	73	57	39	30	25	16	13	7	
12HX840a	651	558	467	376	273	220	202	186	162	116	92	66	51	44	29	24	12	

**Discharge Currents (Amperes) to 1.67Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	316	206	157	128	94	75	68	62	53	39	30	22	17	14	9	7	4	
12HX400a	416	296	215	175	130	102	91	86	73	52	41	29	22	18	12	10	5	
12HX410F	295	256	224	175	131	107	99	90	75	57	44	30	24	19	13	11	6	
12HX540a	475	374	301	245	186	147	131	123	105	73	56	39	30	25	16	13	7	
12HX840a	644	552	461	372	271	219	201	185	161	115	92	66	51	44	29	24	12	

**Discharge Currents (Amperes) to 1.70Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	306	205	156	127	93	75	68	62	53	39	30	22	17	13	9	7	4	
12HX400a	404	289	212	174	129	102	91	85	72	52	41	29	22	18	12	10	5	
12HX410F	281	236	211	167	129	104	97	88	74	56	43	29	23	19	13	11	6	
12HX540a	447	348	294	239	184	145	130	122	104	72	56	39	30	25	16	13	7	
12HX840a	634	544	458	342	268	216	199	183	160	115	91	66	51	44	29	24	12	

**Discharge Currents (Amperes) to 1.75Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	285	197	152	125	93	74	67	61	53	39	30	21	17	13	9	7	4	
12HX400a	377	270	206	170	128	101	91	85	72	52	40	28	22	18	12	10	5	
12HX410F	261	221	195	158	126	102	95	86	73	54	42	28	22	19	13	11	6	
12HX540a	396	325	279	229	177	140	126	119	101	71	55	39	30	25	16	13	7	
12HX840a	611	526	443	333	259	210	195	180	157	114	91	65	51	44	28	24	12	

**Discharge Currents (Amperes) to 1.80Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	258	184	144	119	89	72	65	59	51	38	30	21	16	13	9	7	4	
12HX400a	340	245	195	162	123	97	87	82	70	50	39	28	22	18	12	10	5	
12HX410F	241	201	183	151	124	100	93	85	72	53	41	28	22	18	12	11	5	
12HX540a	348	293	250	214	166	132	121	114	97	69	53	38	29	25	16	13	7	
12HX840a	535	464	402	314	248	203	188	174	154	112	90	65	51	44	28	24	12	

**Discharge Currents (Amperes) to 1.85Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)								
	5	10	15	20	30	40	45	50	1	1.5	2	3	4	5	8	10	20	
12HX300a	225	165	131	109	82	65	60	54	47	36	28	20	15	12	8	7	4	
12HX400a	296	220	177	149	113	91	81	76	65	47	37	27	21	17	11	9	5	
12HX410F	211	181	170	144	122	98	92	83	70	52	40	28	22	18	12	10	5	
12HX540a	300	256	213	192	152	122	112	106	91	65	50	36	27	24	15	13	7	
12HX840a	473	394	351	293	235	194	181	168	149	110	89	62	48	44	28	23	12	

**Discharge Power (Watt per cell) to 1.60Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	555	379	294	241	177	144	130	120	104	73	59	42	27	17	14	8	
12HX400a	733	544	401	328	247	195	181	164	144	103	81	57	37	24	20	11	
12HX410F	536	469	416	328	251	202	188	170	147	112	89	60	39	27	22	12	
12HX540a	867	686	550	446	341	279	250	231	200	145	114	77	50	33	27	14	
12HX840a	1,166	1,000	842	685	500	405	374	344	299	231	184	132	88	58	49	25	

**Discharge Power (Watt per cell) to 1.65Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	550	377	292	240	176	143	130	119	104	73	59	42	25	17	14	7	
12HX400a	728	540	398	326	245	193	180	163	143	103	81	56	37	24	20	11	
12HX410F	513	465	412	325	250	201	187	169	146	111	88	60	38	27	22	12	
12HX540a	816	671	545	446	339	277	248	230	199	145	113	77	50	33	26	14	
12HX840a	1,153	999	840	682	499	404	373	343	299	231	183	132	88	57	48	25	

**Discharge Power (Watt per cell) to 1.67Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	546	375	291	239	176	143	130	119	103	72	59	42	25	17	14	7	
12HX400a	722	536	396	324	244	193	179	162	142	103	80	56	37	24	20	11	
12HX410F	500	462	410	324	249	200	186	169	146	111	88	60	38	26	22	12	
12HX540a	794	663	540	444	337	276	248	229	198	145	113	76	50	33	26	14	
12HX840a	1,146	997	840	681	498	404	373	343	299	230	183	132	88	57	48	25	

**Discharge Power (Watt per cell) to 1.70Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	535	373	289	238	174	142	129	119	103	72	59	42	25	17	14	7	
12HX400a	708	526	390	321	241	191	178	161	142	102	80	56	36	24	20	10	
12HX410F	491	427	385	311	246	198	184	167	144	109	86	58	38	26	22	12	
12HX540a	752	621	532	438	331	271	243	225	195	143	112	76	50	33	26	14	
12HX840a	1,139	995	838	631	498	404	373	343	298	229	183	131	88	57	48	25	

**Discharge Power (Watt per cell) to 1.75Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	504	363	286	235	173	142	129	119	103	72	59	41	25	17	14	7	
12HX400a	668	495	380	315	238	189	176	160	141	102	80	56	36	24	20	10	
12HX410F	470	400	356	296	244	195	182	165	142	107	84	56	37	26	21	11	
12HX540a	693	585	511	424	322	265	238	221	192	141	111	75	49	32	26	14	
12HX840a	1,119	978	824	622	487	397	368	340	298	226	181	131	87	57	48	25	

**Discharge Power (Watt per cell) to 1.80Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	461	343	273	226	169	138	126	116	101	70	58	41	25	17	14	7	
12HX400a	610	452	362	303	230	183	171	156	137	99	78	55	36	24	19	10	
12HX410F	440	375	345	288	240	192	179	163	140	104	83	55	36	25	21	11	
12HX540a	638	540	468	400	307	256	229	213	186	137	109	73	48	32	26	13	
12HX840a	997	872	760	597	474	389	361	335	296	223	180	131	87	56	47	24	

**Discharge Power (Watt per cell) to 1.85Vpc at 25°C**

Battery Type	Standby Time (Minutes)									Standby Time (Hours)							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20	
12HX300a	412	313	251	209	158	129	118	110	95	67	54	38	24	16	14	7	
12HX400a	545	413	333	281	216	172	161	147	129	94	74	52	34	23	19	10	
12HX410F	410	350	333	281	236	188	176	161	138	101	82	55	36	25	21	11	
12HX540a	560	483	409	350	283	239	215	200	176	130	103	70	46	30	25	13	
12HX840a	887	740	664	556	448	372	347	323	287	218	178	123	87	56	46	24	



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