

data safe[®]
HX **PLUS**

data safe[®]
HX

PERFORMANCE DATA



data safe[™]
HX

12HX400a-FR 12V, 381Wh/Cell 15 min
FLAME RETARDANT

Float voltage / Tension de floating
13.6 ± 0.1V at 25 °C (127.5)

Connection torque / Couple de serrage
0.8 Nm (60 in-lb)

Non-spillable Battery Made in China

Recycle Pb
Battery must be recycled

Prohibit open flame
avoid sparks

Use lead-acid
in sealed container

15
MH15740

WARNING: Battery parts, terminals and related accessories contain lead and lead compounds, substances known to the State of California to cause cancer and reproductive harm. Batteries also contain other substances known to the State of California to cause cancer.

WASH HANDS AFTER HANDLING.

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EnerSys[®]

Power/Full Solutions

RESERVE
POWER

Constant Current Discharge Performance Data

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	389.5	267.8	204.0	165.1	138.8	119.7	105.4	94.4	85.5	78.3	67.20	47.70	37.40	26.50	20.80	17.10	11.50	9.48	4.96
12HX420FR+	454.5	312.5	238.1	192.7	162.0	139.7	123.1	110.2	99.8	91.3	78.40	55.70	43.60	30.80	23.90	19.60	12.50	10.20	5.06
12HX505FR+	585.1	390.4	282.5	223.7	186.3	160.3	141.0	126.2	114.3	104.6	89.60	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	647.6	413.3	310.8	251.8	212.0	184.6	161.0	144.0	133.7	120.0	104.60	74.00	58.00	40.60	31.40	25.70	16.70	13.60	7.12
12HX25	25.4	15.7	11.7	9.4	7.8	6.8	6.0	5.3	4.9	4.5	3.81	2.66	2.11	1.47	1.14	0.92	0.60	0.49	0.26
12HX35	39.8	24.6	18.3	14.7	12.3	10.6	9.4	8.3	7.7	7.0	5.97	4.17	3.30	2.30	1.77	1.45	0.93	0.76	0.41
6HX50	56.0	34.6	26.4	20.9	18.1	15.2	13.6	11.9	10.8	9.9	8.49	5.93	4.64	3.24	2.63	2.04	1.31	1.19	0.62
12HX50	56.0	34.6	26.4	20.9	18.1	15.2	13.6	11.9	10.8	9.9	8.49	5.93	4.64	3.24	2.63	2.04	1.31	1.19	0.62
12HX80	88.5	54.7	40.8	32.6	27.2	23.5	20.8	18.5	17.0	15.6	13.30	9.26	7.33	5.11	3.95	3.22	2.08	1.70	0.90
12HX105	110.6	68.3	51.0	40.8	34.0	29.4	26.1	23.1	21.3	19.5	16.60	11.60	9.16	6.39	4.94	4.02	2.65	2.19	1.22
12HX135	149.4	92.2	68.8	55.1	46.0	39.7	35.1	31.2	28.7	26.4	22.40	15.60	12.40	8.63	6.66	5.43	3.58	2.95	1.65
12HX150	166.0	102.5	76.5	61.2	51.1	44.1	39.0	34.6	31.9	29.3	24.90	17.40	13.70	9.59	7.45	6.03	4.08	3.41	2.00
12HX205	246.1	153.5	113.6	90.8	76.7	65.5	57.9	51.6	46.7	42.7	36.50	25.70	19.90	13.90	10.70	8.82	5.82	4.78	2.64
12HX300a	321.6	207.0	157.8	128.5	107.7	93.7	83.2	75.6	70.1	63.5	53.90	39.40	30.60	21.80	16.90	13.70	8.95	7.27	3.79
12HX400a	425.2	301.8	217.5	177.6	148.0	131.8	114.7	102.7	91.8	86.1	73.00	52.50	41.10	29.00	22.40	18.40	12.20	10.15	5.09
12HX540a	532.0	394.3	305.9	250.2	212.3	189.3	168.4	149.7	133.1	124.4	106.40	73.60	56.80	39.50	30.30	25.30	16.35	13.50	6.78
6HX800	910.7	606.4	463.6	373.6	314.0	284.8	246.5	218.2	198.3	178.9	154.60	105.60	86.40	61.30	48.60	39.50	25.90	20.80	10.90

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	381.4	261.5	200.8	163.3	137.4	118.5	104.5	93.6	84.8	77.8	66.90	47.50	37.40	26.50	20.70	17.10	11.50	9.48	4.96
12HX420FR+	445.0	305.1	234.3	190.5	160.3	138.3	121.9	109.2	99.0	90.8	78.10	55.50	43.60	30.80	23.90	19.60	12.50	10.20	5.06
12HX505FR+	546.0	378.0	282.5	223.7	186.3	160.3	141.0	126.2	114.3	104.6	89.60	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	604.2	398.8	303.9	247.7	210.6	182.9	160.1	143.6	133.0	119.7	104.10	74.00	57.70	40.40	31.20	25.40	16.50	13.50	7.08
12HX25	24.7	15.4	11.6	9.3	7.8	6.7	5.9	5.3	4.9	4.5	3.79	2.65	2.09	1.46	1.13	0.92	0.59	0.49	0.26
12HX35	38.6	24.2	18.1	14.6	12.2	10.5	9.3	8.3	7.6	7.0	5.93	4.14	3.28	2.28	1.76	1.44	0.93	0.76	0.41
6HX50	54.3	34.0	26.0	20.7	17.9	15.1	13.5	11.8	10.7	9.8	8.44	5.89	4.61	3.21	2.61	2.03	1.31	1.19	0.62
12HX50	54.3	34.0	26.0	20.7	17.9	15.1	13.5	11.8	10.7	9.8	8.44	5.89	4.61	3.21	2.61	2.03	1.31	1.19	0.62
12HX80	85.8	53.7	40.3	32.3	26.9	23.4	20.6	18.4	16.9	15.5	13.20	9.21	7.28	5.07	3.92	3.20	2.07	1.69	0.90
12HX105	107.2	67.1	50.3	40.4	33.7	29.2	25.8	22.9	21.1	19.4	16.50	11.50	9.11	6.34	4.91	4.00	2.64	2.18	1.22
12HX135	144.7	90.6	68.0	54.6	45.5	39.4	34.9	31.0	28.5	26.2	22.30	15.50	12.30	8.56	6.61	5.40	3.56	2.94	1.65
12HX150	160.8	100.7	75.5	60.6	50.6	43.8	38.7	34.4	31.7	29.1	24.70	17.30	13.70	9.51	7.40	6.00	4.07	3.40	2.00
12HX205	233.9	149.1	111.2	89.4	74.8	64.7	56.9	51.1	46.3	42.3	36.20	25.50	19.80	13.80	10.60	8.74	5.76	4.74	2.63
12HX300a	318.9	206.5	157.3	128.1	107.4	93.6	83.1	74.8	68.0	61.8	53.30	39.30	30.50	21.70	16.80	13.60	8.94	7.26	3.78
12HX400a	421.5	298.2	215.8	176.1	146.7	130.7	113.9	102.3	91.5	85.8	72.70	52.30	40.90	28.80	22.30	18.30	12.15	10.10	5.08
12HX540a	492.6	380.5	304.8	247.0	209.5	187.3	166.5	148.0	132.0	123.5	105.50	73.10	56.50	39.40	30.20	25.20	16.30	13.45	6.77
6HX800	858.0	582.8	449.4	365.7	308.3	279.4	243.0	215.3	191.5	178.4	152.80	104.80	85.90	61.00	47.50	39.30	25.80	20.70	10.80

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	378.1	258.6	198.5	161.7	136.3	117.6	103.7	92.9	84.3	77.2	66.50	47.30	37.10	26.30	20.60	17.00	11.40	9.42	4.96
12HX420FR+	441.1	301.8	231.6	188.6	159.0	137.2	121.0	108.4	98.3	90.1	77.60	55.20	43.30	30.60	23.80	19.40	12.50	10.20	5.06
12HX505FR+	528.7	371.5	281.4	223.7	186.3	160.3	141.0	126.2	114.3	104.6	89.60	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	585.3	391.5	299.9	245.2	208.9	181.6	159.0	142.7	132.3	119.0	103.70	73.90	57.50	40.20	31.00	25.30	16.50	13.40	7.06
12HX25	24.3	15.3	11.5	9.2	7.7	6.7	5.9	5.3	4.8	4.4	3.77	2.64	2.09	1.46	1.13	0.92	0.59	0.48	0.26
12HX35	38.0	23.9	18.0	14.4	12.1	10.5	9.3	8.2	7.6	7.0	5.91	4.13	3.26	2.28	1.76	1.43	0.93	0.76	0.41
6HX50	53.4	33.6	25.8	20.5	17.8	15.0	13.4	11.8	10.7	9.8	8.40	5.87	4.59	3.21	2.61	2.02	1.31	1.19	0.62
12HX50	53.4	33.6	25.8	20.5	17.8	15.0	13.4	11.8	10.7	9.8	8.40	5.87	4.59	3.21	2.61	2.02	1.31	1.19	0.62
12HX80	84.4	53.1	39.9	32.1	26.8	23.2	20.6	18.3	16.8	15.4	13.10	9.17	7.25	5.06	3.90	3.19	2.06	1.69	0.90
12HX105	105.5	66.4	49.9	40.1	33.5	29.0	25.7	22.8	21.0	19.3	16.40	11.50	9.07	6.33	4.90	3.98	2.63	2.18	1.22
12HX135	142.4	89.7	67.4	54.2	45.2	39.2	34.7	30.8	28.4	26.1	22.20	15.50	12.20	8.54	6.58	5.38	3.56	2.94	1.65
12HX150	158.2	99.6	74.9	60.2	50.4	43.5	38.6	34.2	31.5	29.0	24.60	17.20	13.60	9.49	7.38	5.98	4.06	3.39	2.00
12HX205	228.0	146.6	109.8	88.4	74.1	64.2	56.5	50.7	45.9	42.0	36.00	25.30	19.60	13.70	10.60	8.69	5.73	4.72	2.62
12HX300a	316.3	206.0	156.8	127.7	107.2	93.5	83.0	74.7	67.8	61.6	53.00	39.20	30.40	21.60	16.70	13.50	8.93	7.25	3.77
12HX400a	416.2	296.0	214.6	175.1	145.9	130.1	113.5	102.0	91.3	85.6	72.50	52.20	40.80	28.70	22.20	18.20	12.10	10.05	5.07
12HX540a	474.9	373.6	300.9	245.3	208.1	186.3	165.6	147.2	131.4	123.0	105.10	72.90	56.30	39.10	30.10	25.10	16.25	13.40	6.76
6HX800	832.6	570.9	442.2	360.9	304.9	276.4	240.5	213.0	189.5	178.0	151.80	104.50	85.60	60.70	46.70	39.20	25.50	20.60	10.70

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	372.9	254.7	194.6	158.0	133.6	115.8	102.2	91.6	83.2	76.4	65.80	46.90	36.80	26.10	20.50	16.90	11.30	9.38	4.86
12HX420FR+	435.0	297.2	227.0	184.4	155.9	135.1	119.2	106.9	97.1	89.2	76.80	54.70	42.90	30.30	23.60	19.30	12.40	10.10	5.06
12HX505FR+	501.1	359.8	275.8	223.4	186.3	160.3	141.0	126.2	114.3	104.6	89.60	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	555.5	379.0	292.7	240.4	205.5	179.0	156.8	140.8	130.9	117.7	102.70	73.30	57.10	39.90	30.80	25.20	16.30	13.30	7.02
12HX25	23.7	15.2	11.3	9.1	7.6	6.6	5.8	5.2	4.8	4.4	3.73	2.61	2.04	1.45	1.12	0.91	0.59	0.48	0.26
12HX35	36.8	23.3	17.6	14.2	11.9	10.3	9.2	8.2	7.5	6.8	5.83	4.09	3.20	2.26	1.75	1.42	0.92	0.75	0.41
6HX50	51.9	33.0	25.4	20.2	17.5	14.8	13.2	11.6	10.6	9.7	8.32	5.82	4.56	3.18	2.59	2.01	1.30	1.18	0.61
12HX50	51.9	33.0	25.4	20.2	17.5	14.8	13.2	11.6	10.6	9.7	8.32	5.82	4.56	3.18	2.59	2.01	1.30	1.18	0.61
12HX80	81.8	51.9	39.1	31.5	26.4	22.9	20.3	18.3	16.6	15.2	13.00	9.09	7.11	5.02	3.88	3.16	2.05	1.67	0.89
12HX105	102.2	64.8	48.9	39.3	33.0	28.6	25.4	22.8	20.7	19.0	16.20	11.40	8.90	6.28	4.86	3.97	2.61	2.16	1.21
12HX135	138.0	88.4	66.1	53.0	44.5	38.6	34.2	30.8	28.0	25.7	21.90	15.40	12.00	8.46	6.55	5.36	3.53	2.92	1.64
12HX150	153.3	97.2	73.4	59.1	49.6	42.9	38.1	34.2	31.1	28.5	24.30	17.00	13.30	9.42	7.33	6.02	4.03	3.38	1.99
12HX205	217.1	141.8	106.6	85.9	72.2	62.5	55.2	49.6	45.0	41.2	35.40	24.90	19.30	13.50	10.50	8.56	5.66	4.68	2.60
12HX300a	305.8	204.7	155.8	126.8	106.9	93.4	82.9	74.6	67.7	61.5	52.90	39.10	30.30	21.50	16.60	13.40	8.92	7.24	3.76
12HX400a	404.2	288.7	211.7	173.6	144.8	129.2	112.8	101.6	91.0	85.3	72.20	52.00	40.60	28.50	22.10	18.10	12.05	10.00	5.06
12HX540a	446.7	347.7	294.2	239.3	204.6	183.9	163.5	145.3	130.1	121.9	104.10	72.40	55.90	38.90	30.00	25.00	16.20	13.35	6.75
6HX800	791.0	550.0	430.2	352.5	298.8	270.9	235.9	208.0	185.0	171.3	150.00	104.00	84.70	60.10	46.10	38.80	25.30	20.50	10.60

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	355.8	247.4	189.3	153.7	129.7	112.4	99.4	89.2	81.1	74.6	64.40	46.10	36.20	25.70	20.20	16.60	11.20	9.29	4.86
12HX420FR+	414.8	288.6	220.9	179.4	151.3	131.1	116.0	104.1	94.7	87.0	75.20	53.90	42.30	29.90	23.20	19.00	12.20	10.00	5.06
12HX505FR+	450.8	333.8	262.5	215.3	182.6	158.9	140.8	126.2	114.3	104.6	89.60	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	503.2	354.6	277.9	230.2	198.0	173.0	151.8	136.6	127.4	114.5	100.40	72.00	56.20	39.30	30.40	24.80	16.10	13.10	6.93
12HX25	22.3	14.3	10.9	8.8	7.4	6.4	5.7	5.1	4.7	4.3	3.66	2.57	2.04	1.42	1.10	0.90	0.58	0.47	0.25
12HX35	34.9	22.4	17.0	13.8	11.5	10.0	8.9	7.9	7.3	6.7	5.73	4.02	3.19	2.23	1.72	1.41	0.91	0.74	0.40
6HX50	49.0	31.5	24.4	19.5	17.0	14.4	12.9	11.3	10.3	9.5	8.15	5.71	4.49	3.14	2.56	1.98	1.28	1.16	0.61
12HX50	49.0	31.5	24.4	19.5	17.0	14.4	12.9	11.3	10.3	9.5	8.15	5.71	4.49	3.14	2.56	1.98	1.28	1.16	0.61
12HX80	77.5	49.8	37.8	30.6	25.7	22.3	19.9	17.6	16.3	15.0	12.70	8.92	7.08	4.95	3.83	3.13	2.02	1.65	0.88
12HX105	96.8	62.2	47.2	38.2	32.1	27.9	24.8	22.0	20.3	18.7	15.90	11.20	8.85	6.19	4.79	3.91	2.58	2.13	1.19
12HX135	130.7	84.0	63.8	51.6	43.3	37.6	33.4	29.7	27.4	25.2	21.50	15.10	12.00	8.35	6.51	5.28	3.48	2.88	1.61
12HX150	145.2	93.3	70.8	57.3	48.1	41.8	37.2	33.0	30.5	28.0	23.90	16.70	13.30	9.28	7.24	5.86	3.98	3.32	1.96
12HX205	199.2	132.9	101.1	82.2	69.1	60.3	53.2	47.9	43.5	39.9	34.30	24.20	18.90	13.20	10.30	8.40	5.56	4.58	2.56
12HX300a	285.4	197.0	152.3	124.9	106.1	92.8	82.5	73.8	67.3	61.1	52.60	39.00	30.20	21.40	16.50	13.30	8.90	7.23	3.75
12HX400a	376.9	270.1	205.9	170.2	142.4	127.6	111.9	101.1	90.6	84.9	71.90	51.70	40.30	28.40	22.00	18.00	12.00	9.95	5.05
12HX540a	395.7	324.5	279.3	229.2	197.2	176.6	157.0	139.7	126.4	118.6	101.40	70.80	54.90	38.50	29.60	24.90	16.15	13.30	6.74
6HX800	713.0	507.1	403.7	336.2	288.8	258.9	227.7	201.3	181.7	167.4	146.80	103.50	83.10	58.80	44.80	38.10	24.90	20.10	10.40

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	315.5	226.6	180.2	148.0	125.1	108.6	96.0	86.1	78.2	71.9	62.30	44.90	35.50	25.30	19.80	16.30	11.00	9.14	4.85
12HX420FR+	367.5	264.2	210.1	172.7	146.0	126.7	112.1	100.5	91.2	83.9	72.70	52.40	41.40	29.30	22.80	18.60	12.00	9.90	4.95
12HX505FR+	394.6	300.9	241.5	201.4	172.8	151.4	134.8	121.7	111.0	102.1	88.20	63.60	49.50	35.00	27.00	22.20	14.90	12.30	6.70
12HX560FR+	449.1	326.7	259.9	217.3	188.1	165.2	145.2	131.0	122.7	110.3	97.30	70.10	54.90	38.60	29.90	24.40	15.90	12.90	6.83
12HX25	20.8	13.5	10.3	8.4	7.2	6.2	5.5	4.9	4.5	4.2	3.55	2.50	2.00	1.40	1.07	0.88	0.57	0.47	0.25
12HX35	32.5	21.1	16.1	13.1	11.4	9.6	8.6	7.6	7.1	6.5	5.56	3.92	3.12	2.19	1.68	1.38	0.89	0.73	0.39
6HX50	45.7	29.7	23.2	18.6	16.2	13.9	12.4	10.9	10.0	9.2	7.91	5.57	4.40	3.08	2.51	1.95	1.26	1.14	0.59
12HX50	45.7	29.7	23.2	18.6	16.2	13.9	12.4	10.9	10.0	9.2	7.91	5.57	4.40	3.08	2.51	1.95	1.26	1.14	0.59
12HX80	72.2	46.9	35.9	29.2	25.0	21.4	19.0	16.9	15.7	14.5	12.40	8.71	6.94	4.87	3.70	3.08	1.98	1.62	0.86
12HX105	90.2	58.7	44.9	36.5	31.0	26.8	24.0	21.2	19.6	18.1	15.50	10.90	8.68	6.09	4.70	3.85	2.53	2.09	1.17
12HX135	121.8	79.2	60.6	49.2	42.0	36.1	32.0	28.6	26.5	24.5	20.90	14.70	11.70	8.22	6.30	5.19	3.42	2.82	1.58
12HX150	135.4	88.0	67.3	54.7	47.0	40.2	35.0	31.8	29.5	27.2	23.20	16.30	13.00	9.13	7.04	5.77	3.90	3.26	1.91
12HX205	178.5	121.9	93.8	76.8	62.6	56.8	50.5	45.4	41.3	37.9	32.70	23.20	18.10	12.70	9.90	8.14	5.41	4.47	2.52
12HX300a	257.9	183.5	143.9	118.8	101.6	89.0	79.3	71.6	64.7	58.5	50.90	38.40	29.60	21.00	16.30	13.10	8.84	7.20	3.74
12HX400a	340.3	244.7	194.8	162.4	136.4	122.5	107.5	97.3	87.2	81.9	69.60	50.40	39.40	28.00	21.80	17.90	11.90	9.90	5.04
12HX540a	347.7	293.0	250.1	214.2	186.1	166.1	148.7	131.7	120.9	113.7	97.40	68.70	53.40	38.20	29.00	24.80	16.10	13.25	6.73
6HX800	629.9	458.9	375.6	316.1	271.5	244.1	217.2	192.2	171.3	158.3	141.50	100.80	80.70	56.90	43.60	37.10	24.10	19.60	10.20

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

DataSafe HX Battery Type	Standby Time (Minutes)										Hour								
	5	10	15	20	25	30	35	40	45	50	1	1.5	2	3	4	5	8	10	20
12HX360FR+	262.4	191.0	155.1	130.7	112.4	99.1	88.2	79.4	72.6	67.0	57.90	41.80	33.20	23.70	18.60	15.50	10.60	8.71	4.53
12HX420FR+	305.7	222.6	180.9	152.4	131.1	115.6	102.9	92.7	84.7	78.2	67.50	48.80	38.70	27.50	21.40	17.60	11.50	9.45	4.74
12HX505FR+	332.4	261.2	213.7	180.0	155.8	137.5	123.3	111.9	102.4	94.5	82.10	59.40	46.90	33.50	26.10	21.60	14.60	12.10	6.70
12HX560FR+	394.9	296.4	239.6	202.3	176.5	155.7	137.3	124.3	117.0	105.2	93.40	67.80	53.40	37.70	29.90	24.00	15.60	12.70	6.70
12HX25	19.1	12.6	9.7	7.9	6.7	5.9	5.1	4.7	4.3	4.0	3.42	2.42	1.94	1.37	1.05	0.87	0.56	0.46	0.24
12HX35	29.9	19.7	15.1	12.4	10.7	9.2	8.1	7.3	6.8	6.3	5.36	3.80	3.04	2.15	1.60	1.36	0.88	0.72	0.38
6HX50	42.0	27.7	21.9	17.7	15.4	13.2	11.9	10.5	9.6	8.8	7.65	5.42	4.30	3.03	2.46	1.91	1.23	1.12	0.57
12HX50	42.0	27.7	21.9	17.7	15.4	13.2	11.9	10.5	9.6	8.8	7.65	5.42	4.30	3.03	2.46	1.91	1.23	1.12	0.57
12HX80	66.4	43.7	33.6	27.5	23.9	20.4	18.1	16.2	15.1	13.9	11.90	8.44	6.76	4.77	3.50	3.03	1.95	1.59	0.84
12HX105	83.0	54.6	42.0	34.4	29.0	25.4	22.8	20.2	18.8	17.4	14.90	10.50	8.45	5.96	4.60	3.78	2.49	2.05	1.14
12HX135	112.1	73.7	56.8	46.4	40.0	34.4	30.0	27.3	25.4	23.5	20.10	14.20	11.40	8.05	6.10	5.11	3.36	2.77	1.54
12HX150	124.6	81.9	63.1	51.6	45.0	38.2	34.0	30.3	28.2	26.1	22.30	15.80	12.70	8.94	6.84	5.67	3.83	3.20	1.87
12HX205	156.8	109.8	85.5	70.5	57.8	52.7	47.0	42.4	38.7	35.6	30.80	22.00	17.30	12.20	9.50	7.84	5.24	4.33	2.45
12HX300a	224.5	164.7	130.8	108.9	93.7	82.3	73.5	64.9	59.9	54.1	47.40	35.80	27.70	19.90	15.40	12.40	8.39	6.83	3.60
12HX400a	295.7	219.6	177.3	149.2	125.8	113.4	99.6	90.5	81.2	76.4	64.90	47.20	37.00	26.80	20.50	16.90	11.30	9.43	4.86
12HX540a	299.6	256.2	213.0	191.7	168.7	152.1	137.1	121.5	112.3	106.1	91.20	64.50	50.20	36.00	27.40	23.50	15.40	12.75	6.59
6HX800	545.8	407.6	334.2	290.8	248.2	226.7	198.3	177.4	159.2	150.0	134.80	94.40	76.00	53.80	41.10	35.70	23.30	19.00	9.80

Constant Power Discharge Performance Data

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	656.2	468.8	364.8	299.7	221.4	175.8	159.6	146.3	125.80	89.90	70.60	50.20	32.60	21.80	18.10	9.66
12HX420FR+	765.5	546.9	425.6	349.7	258.4	205.1	186.3	170.7	146.80	104.90	82.40	58.50	37.50	24.20	19.70	9.75
12HX505FR+	950.3	673.9	511.2	412.1	301.2	239.6	217.8	199.7	172.70	123.10	96.80	68.40	44.40	29.30	24.30	13.30
12HX560FR+	1123.2	750.4	576.2	472.3	351.6	277.6	257.7	232.4	202.90	145.60	113.90	80.10	50.80	33.20	27.00	14.20
12HX25	47.4	30.1	22.5	18.2	13.3	10.4	9.6	8.9	7.58	5.31	4.21	2.94	1.85	1.20	0.98	0.53
12HX35	74.2	47.1	36.0	28.4	20.7	16.4	15.1	13.9	11.90	8.31	6.59	4.60	2.90	1.87	1.53	0.82
6HX50	104.4	66.3	50.5	40.3	29.8	23.4	21.3	19.5	16.88	11.81	9.28	6.48	4.08	2.63	2.38	1.25
12HX50	104.4	66.3	50.5	40.3	29.8	23.4	21.3	19.5	16.88	11.81	9.28	6.48	4.08	2.63	2.38	1.25
12HX80	164.9	104.8	80.0	63.2	46.1	36.3	33.5	30.9	26.40	18.50	14.70	10.20	6.45	4.16	3.40	1.83
12HX105	206.2	131.0	100.0	79.0	57.6	45.4	41.9	38.7	33.00	23.10	18.30	12.80	8.06	5.31	4.38	2.47
12HX135	278.3	176.8	135.0	106.7	77.8	61.3	56.6	52.2	44.50	31.20	24.70	17.30	10.90	7.17	5.92	3.33
12HX150	309.2	196.5	150.0	118.5	86.4	68.1	62.9	58.0	49.50	34.60	27.50	19.20	12.10	8.18	6.83	4.04
12HX205	435.0	280.0	210.0	169.6	124.0	85.0	88.9	81.5	69.90	48.90	38.10	26.80	17.00	11.30	9.30	5.13
12HX300a	555.3	378.9	293.5	241.4	176.7	143.7	130.1	119.6	103.60	72.90	59.00	41.80	26.60	17.40	14.24	7.50
12HX400a	733.0	544.0	400.5	328.2	246.7	195.0	181.2	164.1	143.80	103.40	80.90	56.70	36.90	24.10	19.90	10.60
12HX540a	866.7	686.3	550.0	445.8	340.8	278.5	249.6	230.7	199.90	145.40	113.60	76.80	50.20	32.80	26.50	13.90
6HX800	1500.0	1067.0	830.0	685.0	521.0	406.6	362.6	328.2	290.00	208.20	162.30	115.20	72.80	50.30	41.00	21.90

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	656.2	464.3	362.2	298.4	220.6	175.1	159.0	145.8	125.70	89.90	70.50	50.20	32.60	21.80	18.10	9.66
12HX420FR+	765.5	541.6	422.5	348.1	257.4	204.3	185.6	170.1	146.70	104.90	82.20	58.50	37.50	24.20	19.70	9.76
12HX505FR+	895.6	660.0	509.8	412.1	301.2	239.6	217.8	199.7	172.70	123.10	96.80	68.40	44.40	29.30	24.30	13.40
12HX560FR+	1064.6	729.8	566.0	466.4	349.0	275.6	256.5	231.0	202.20	145.10	113.40	79.70	50.50	32.90	26.80	14.10
12HX25	45.9	29.6	23.0	18.0	13.2	10.4	9.6	8.8	7.54	5.28	4.19	2.92	1.84	1.19	0.97	0.53
12HX35	71.9	46.3	36.0	28.2	20.6	16.2	15.0	13.8	11.80	8.26	6.56	4.56	2.88	1.86	1.52	0.82
6HX50	101.1	65.2	50.2	40.0	29.6	23.3	21.1	19.4	16.78	11.75	9.23	6.43	4.06	2.62	2.38	1.25
12HX50	101.1	65.2	50.2	40.0	29.6	23.3	21.1	19.4	16.78	11.75	9.23	6.43	4.06	2.62	2.38	1.25
12HX80	159.8	103.0	80.0	62.6	45.8	36.1	33.3	30.7	26.20	18.40	14.60	10.10	6.41	4.14	3.38	1.83
12HX105	199.8	128.7	100.0	78.3	57.2	45.1	41.7	38.4	32.80	22.90	18.20	12.70	8.01	5.29	4.37	2.47
12HX135	269.7	173.7	135.0	105.7	77.2	60.9	56.3	51.9	44.20	31.00	24.60	17.10	10.80	7.14	5.89	3.33
12HX150	299.6	193.0	150.0	117.4	85.8	67.7	62.5	57.6	49.20	34.40	27.30	19.00	12.00	8.14	6.81	4.04
12HX205	418.0	273.0	206.0	167.1	122.0	86.9	88.1	80.8	69.40	48.60	37.80	26.60	16.90	11.20	9.20	5.13
12HX300a	549.7	376.5	291.6	239.8	176.3	143.0	129.7	119.4	103.50	72.70	58.90	41.70	25.40	17.20	14.23	7.49
12HX400a	728.2	539.6	397.7	325.8	244.7	193.4	179.8	162.9	142.80	102.80	80.50	56.40	36.70	24.00	19.80	10.55
12HX540a	815.5	670.6	544.9	445.6	338.5	276.9	248.2	229.5	198.90	144.80	113.30	76.50	49.90	32.70	26.40	13.80
6HX800	1445.0	1034.0	805.0	670.0	511.0	403.5	359.7	325.9	285.60	206.70	161.30	114.60	72.40	48.60	40.80	21.80

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	656.2	461.8	359.6	296.4	219.6	174.4	158.4	145.3	125.20	89.70	70.40	50.00	32.40	21.70	18.00	9.66
12HX420FR+	765.5	538.7	419.5	345.8	256.2	203.5	184.8	169.5	146.10	104.70	82.10	58.20	37.30	24.10	19.60	9.77
12HX505FR+	871.7	652.9	506.0	412.1	301.2	239.6	217.8	199.7	172.70	123.10	96.80	68.40	44.40	29.30	24.30	13.40
12HX560FR+	1037.9	718.9	560.0	462.5	346.9	274.2	255.4	229.9	201.50	144.70	113.10	79.40	50.30	32.80	26.70	14.10
12HX25	45.2	29.3	23.0	17.9	13.1	10.3	9.5	8.8	7.50	5.25	4.17	2.91	1.84	1.19	0.97	0.53
12HX35	70.8	45.8	36.0	28.0	20.5	16.2	14.9	13.8	11.70	8.22	6.53	4.56	2.87	1.86	1.52	0.82
6HX50	99.5	64.5	50.0	39.8	29.4	23.1	21.0	19.3	16.70	11.69	9.19	6.41	4.04	2.62	2.38	1.25
12HX50	99.5	64.5	50.0	39.8	29.4	23.1	21.0	19.3	16.70	11.69	9.19	6.41	4.04	2.62	2.38	1.25
12HX80	157.2	101.8	80.0	62.2	45.5	35.9	33.2	30.6	26.10	18.30	14.50	10.10	6.39	4.13	3.38	1.83
12HX105	196.5	127.3	100.0	77.7	56.9	44.9	41.5	38.2	32.60	22.80	18.10	12.70	7.98	5.28	4.36	2.47
12HX135	265.3	171.9	135.0	104.9	76.8	60.6	56.0	51.6	44.00	30.80	24.50	17.10	10.80	7.12	5.88	3.33
12HX150	294.8	191.0	150.0	116.5	85.3	67.3	62.2	57.3	48.90	34.30	27.20	19.00	12.00	8.13	6.79	4.04
12HX205	409.0	269.0	204.0	165.9	121.0	86.3	87.6	80.4	68.90	48.30	37.60	26.40	16.80	11.10	9.20	5.10
12HX300a	546.1	375.3	290.7	239.0	176.1	142.7	129.6	119.3	103.40	72.40	58.80	41.60	25.30	17.10	14.22	7.48
12HX400a	722.0	536.2	395.7	324.2	243.5	192.6	179.1	162.3	142.30	102.50	80.30	56.30	36.60	23.90	19.70	10.50
12HX540a	793.5	662.8	540.3	444.1	337.3	276.1	247.5	228.9	198.40	144.50	113.20	76.40	49.80	32.60	26.30	13.70
6HX800	1417.0	1015.0	790.0	658.0	504.0	393.3	350.9	324.6	280.50	205.10	160.40	114.10	72.20	48.50	40.60	21.70

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	656.2	458.4	355.8	292.2	216.8	172.7	157.1	144.3	124.40	89.20	70.10	49.70	32.30	21.60	18.00	9.48
12HX420FR+	765.5	534.8	415.1	340.9	252.9	201.5	183.3	168.4	145.20	104.10	81.80	58.00	37.10	23.90	19.50	9.78
12HX505FR+	834.7	636.0	498.5	409.5	301.2	239.6	217.8	199.7	172.70	123.10	96.80	68.40	44.40	29.30	24.30	13.40
12HX560FR+	994.8	699.8	548.8	455.0	342.7	271.0	253.0	227.6	199.80	143.60	112.40	79.00	50.00	32.60	26.60	14.00
12HX25	43.9	28.7	21.7	17.6	12.9	10.2	9.4	8.7	7.43	5.21	4.14	2.89	1.82	1.18	0.96	0.52
12HX35	68.8	44.9	34.0	27.6	20.2	16.0	14.8	13.6	11.60	8.16	6.48	4.52	2.86	1.84	1.51	0.81
6HX50	96.7	63.2	48.8	39.1	29.1	22.9	20.8	19.1	16.55	11.60	9.13	6.36	4.02	2.60	2.36	1.23
12HX50	96.7	63.2	48.8	39.1	29.1	22.9	20.8	19.1	16.55	11.60	9.13	6.36	4.02	2.60	2.36	1.23
12HX80	152.9	99.8	75.5	61.3	45.0	35.5	32.8	30.3	25.90	18.10	14.40	10.00	6.35	4.10	3.35	1.81
12HX105	191.1	124.7	94.4	76.6	56.2	44.4	41.0	37.9	32.30	22.70	18.00	12.60	7.93	5.24	4.32	2.44
12HX135	257.9	168.4	127.4	103.4	75.9	59.9	55.4	51.1	43.60	30.60	24.30	16.90	10.70	7.07	5.83	3.29
12HX150	286.6	187.1	141.6	114.9	84.3	66.6	61.5	56.8	48.50	34.00	27.00	18.80	11.90	8.06	6.74	4.00
12HX205	394.0	262.0	200.0	162.3	119.0	95.1	86.3	78.8	67.10	47.70	37.20	26.00	16.60	11.00	9.10	5.08
12HX300a	534.5	373.2	289.3	237.8	173.9	142.4	129.4	119.1	103.30	72.10	58.70	41.50	25.20	17.00	14.21	7.47
12HX400a	707.8	525.7	390.1	320.6	241.2	191.2	177.9	161.4	141.70	102.10	80.00	56.10	36.40	23.80	19.60	10.45
12HX540a	751.7	621.0	532.0	438.1	330.8	271.4	243.0	225.3	195.20	142.60	112.00	75.60	49.60	32.50	26.20	13.60
6HX800	1366.0	983.0	774.0	646.0	496.0	386.5	345.0	316.6	277.30	201.80	158.60	113.00	71.80	48.10	40.30	21.60

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	636.3	450.8	350.1	287.1	212.4	169.3	154.1	141.6	122.40	88.10	69.40	49.30	32.00	21.50	17.90	9.48
12HX420FR+	741.7	525.9	408.5	334.9	247.8	197.6	179.8	165.3	142.80	102.80	81.00	57.40	36.70	23.70	19.40	9.81
12HX505FR+	772.3	596.6	479.2	397.9	297.7	239.4	217.8	199.7	172.70	123.10	96.80	68.40	44.40	29.30	24.30	13.40
12HX560FR+	916.4	661.8	525.1	438.4	332.8	264.0	247.2	222.3	195.90	141.40	110.80	78.00	49.40	32.20	26.30	13.90
12HX25	41.5	27.4	20.9	17.0	12.6	9.9	9.2	8.5	7.28	5.11	4.07	2.85	1.80	1.16	0.95	0.51
12HX35	64.9	42.9	32.7	26.6	19.6	15.6	14.4	13.3	11.40	8.00	6.37	4.46	2.82	1.82	1.49	0.80
6HX50	91.3	60.4	47.0	37.7	28.2	22.3	20.3	18.7	16.20	11.38	8.97	6.27	3.97	2.56	2.32	1.23
12HX50	91.3	60.4	47.0	37.7	28.2	22.3	20.3	18.7	16.20	11.38	8.97	6.27	3.97	2.56	2.32	1.23
12HX80	144.3	95.4	72.7	59.2	43.7	34.6	32.0	29.6	25.30	17.80	14.20	9.90	6.26	4.05	3.31	1.79
12HX105	180.4	119.3	90.8	74.0	54.6	43.2	40.1	37.0	31.70	22.20	17.70	12.40	7.83	5.17	4.27	2.41
12HX135	243.5	161.0	122.6	99.9	73.7	58.3	54.1	50.0	42.70	30.00	23.90	16.70	10.60	6.98	5.76	3.26
12HX150	270.6	178.9	136.3	111.0	81.9	64.8	60.1	55.5	47.50	33.40	26.60	18.60	11.70	7.96	6.66	3.95
12HX205	365.0	248.0	190.0	155.4	115.0	91.8	83.5	76.7	66.00	46.40	36.20	25.50	16.30	10.80	8.90	5.01
12HX300a	504.2	362.9	286.4	235.2	172.5	141.7	129.2	119.0	103.20	71.70	58.60	41.40	25.10	16.90	14.20	7.46
12HX400a	667.5	495.1	379.6	315.2	238.0	188.9	175.9	159.9	140.70	101.50	79.60	55.80	36.10	23.70	19.50	10.40
12HX540a	693.3	584.8	510.8	424.2	322.4	265.2	237.6	220.6	191.80	140.60	110.70	74.80	49.40	32.40	26.10	13.50
6HX800	1265.0	916.0	736.0	620.0	478.0	371.3	335.7	308.9	270.60	196.00	154.30	111.60	71.20	47.40	39.70	21.30

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

DataSafe HX Battery Type	Standby Time (Minutes)									Hour						
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	576.6	418.8	336.3	279.0	206.9	165.1	150.0	137.8	119.40	86.30	68.30	48.60	31.50	21.20	17.70	9.47
12HX420FR+	671.7	488.2	392.1	325.5	241.3	192.7	175.0	160.8	139.30	100.70	79.70	56.60	36.20	23.30	19.10	9.65
12HX505FR+	711.7	548.2	446.3	375.5	286.1	231.5	211.7	195.3	169.50	122.70	96.80	68.40	44.40	29.30	24.30	13.40
12HX560FR+	832.3	617.2	495.9	417.2	319.7	254.6	239.3	215.2	190.50	138.20	108.60	76.70	48.70	31.80	25.90	13.70
12HX25	38.7	25.9	19.8	16.2	12.1	9.6	8.9	8.3	7.07	4.99	3.99	2.80	1.77	1.14	0.93	0.50
12HX35	60.5	40.5	31.1	25.4	18.9	15.0	13.9	12.9	11.10	7.81	6.25	4.38	2.77	1.79	1.46	0.79
6HX50	85.1	56.9	44.6	36.0	27.1	21.5	19.6	18.1	15.73	11.11	8.79	6.17	3.90	2.52	2.28	1.19
12HX50	85.1	56.9	44.6	36.0	27.1	21.5	19.6	18.1	15.73	11.11	8.79	6.17	3.90	2.52	2.28	1.19
12HX80	134.5	90.0	69.0	56.5	42.0	33.3	31.0	28.7	24.60	17.40	13.90	9.74	6.16	3.98	3.25	1.75
12HX105	168.2	112.5	86.3	70.6	52.5	41.7	38.7	35.9	30.70	21.70	17.40	12.20	7.70	5.08	4.19	2.36
12HX135	227.0	151.8	116.5	95.3	70.8	56.2	52.3	48.4	41.50	29.30	23.40	16.40	10.40	6.85	5.65	3.18
12HX150	252.2	168.7	129.4	105.9	78.7	62.5	58.1	53.8	46.10	32.50	26.00	18.30	11.60	7.82	6.53	3.86
12HX205	331.7	230.0	178.3	146.6	109.1	87.5	79.7	72.5	62.60	44.70	35.00	24.60	15.80	10.50	8.70	4.93
12HX300a	461.1	342.9	272.5	226.1	169.3	137.5	125.5	115.7	100.50	70.10	57.50	40.80	24.80	16.80	14.10	7.45
12HX400a	610.0	452.2	361.5	303.0	230.4	183.3	171.0	155.6	137.10	99.30	78.20	54.90	35.80	23.60	19.40	10.35
12HX540a	638.1	539.6	467.5	400.2	306.7	255.5	229.3	213.2	186.10	137.20	108.50	73.30	48.30	32.30	26.00	13.40
6HX800	1146.0	839.0	690.0	582.0	453.0	358.4	330.8	299.2	261.40	187.90	148.50	105.20	70.60	47.20	38.80	20.80

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

DataSafe HX Battery Type	Standby Time (Minutes)								Hour							
	5	10	15	20	30	40	45	50	1	1.5	2	3	5	8	10	20
12HX360FR+	491.2	359.8	294.3	249.5	190.2	153.2	140.0	129.4	112.40	81.00	64.20	46.00	30.10	20.60	17.00	8.90
12HX420FR+	572.2	419.4	343.2	291.0	221.8	178.7	163.3	150.9	131.10	94.50	75.00	53.30	34.30	22.40	18.40	9.34
12HX505FR+	607.3	486.8	402.4	339.8	262.4	215.1	197.3	182.3	158.70	115.80	91.90	65.70	43.10	28.70	23.90	13.20
12HX560FR+	745.2	567.6	462.2	392.2	303.8	243.2	229.5	206.5	183.80	134.20	105.90	75.10	47.90	31.30	25.50	13.50
12HX25	35.6	24.1	18.6	15.3	11.5	9.1	8.5	7.9	6.81	4.83	3.89	2.74	1.74	1.12	0.92	0.49
12HX35	55.7	37.7	29.1	24.0	17.9	14.3	13.4	12.4	10.70	7.57	6.08	4.29	2.73	1.76	1.43	0.77
6HX50	78.3	53.2	42.0	34.1	25.9	20.6	18.9	17.4	15.21	10.80	8.60	6.06	3.83	2.47	2.24	1.15
12HX50	78.3	53.2	42.0	34.1	25.9	20.6	18.9	17.4	15.21	10.80	8.60	6.06	3.83	2.47	2.24	1.15
12HX80	123.8	83.7	64.7	53.3	39.9	31.8	29.7	27.6	23.70	16.80	13.50	9.54	6.06	3.90	3.18	1.71
12HX105	154.7	104.6	80.9	66.6	49.9	39.8	37.1	34.5	29.60	21.00	16.90	11.90	7.58	4.98	4.11	2.30
12HX135	208.9	141.3	109.2	89.9	67.3	53.7	50.1	46.5	40.00	28.40	22.80	16.10	10.20	6.73	5.55	3.11
12HX150	232.1	157.0	121.3	99.9	74.8	59.6	55.7	51.7	44.40	31.50	25.30	17.90	11.40	7.68	6.40	3.77
12HX205	296.3	210.0	164.6	136.1	102.2	82.3	75.1	68.5	59.20	42.50	33.40	23.60	15.20	10.20	8.50	4.83
12HX300a	412.1	313.2	250.6	209.4	158.4	128.9	118.1	109.0	94.70	66.50	54.30	38.40	23.50	16.00	13.50	7.18
12HX400a	544.7	412.7	333.4	280.7	215.9	171.9	160.8	146.5	129.40	93.90	73.90	52.00	34.00	22.50	18.60	10.00
12HX540a	560.0	482.7	408.7	350.3	282.8	239.1	214.7	200.3	175.60	130.40	103.20	69.50	46.00	30.40	25.10	13.10
6HX800	1011.0	756.0	620.0	540.0	424.0	335.4	304.0	274.6	250.70	178.40	141.40	98.10	67.00	45.00	37.80	20.30



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