

Carga

El tipo de carga más común es a voltaje constante con una limitación de intensidad de $0.2I_tA$ o $0.1I_tA$ (C/5 o C/10). La batería se conecta directamente a la fuente de carga a través de los terminales.



Voltaje de carga recomendado

Estos son los voltajes de carga recomendados por celda:



tipo de celda	carga de flotación	Carga de absorción
KH	1.41 ± 0.01	1.60
FM	1.43 ± 0.01	1.63
FL	1.45 ± 0.01	1.65



Capacidades y dimensiones

FL (descarga lenta)

Cell Type	Nominal Capacity Ah	Cell Dimensions (mm)			Cell Weight (filled) kg
		Width	Length	Height	
FL55	55	113	59	240	2.28
FL70	70	127	60	275	3.7
	70	137	74	357	5.08
FL80	80	137	74	357	5.32
FL100	100	137	74	357	5.61
FL120	125	137	74	357	5.74
FL150	150	137	113	327	7.1
FL200	200	137	113	327	10.5
FL250	240	167	132	400	10.8
FL300	300	167	132	400	11.72
FL350	350	167	132	400	16.6
	350	169	155	527	16.9
FL400	375	169	155	527	17.9
FL450	450	169	155	527	18.6
FL500	500	169	155	527	19.5

Tabla de descarga a 20±5°

Final de descarga 1.14V por celda

Cell Type	C Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
FL50	50	4.80	5.88	7.37	11.4	14.1	16.1	18.1	21.7	23.9	25.0	27.6	31.6	41.2	44.7	47.5	49.9
FL60	60	5.76	7.05	8.80	13.6	16.9	19.3	21.7	26.0	28.7	30.0	33.2	37.9	49.4	53.7	57.0	59.9
FL70	70	6.72	8.23	10.3	15.9	19.7	22.5	25.4	30.3	33.4	35.0	38.7	44.2	57.7	62.6	67.0	70.0
FL80	80	7.68	9.40	11.8	18.2	22.5	25.8	29.0	34.7	38.2	40.0	44.2	50.6	65.9	72.0	76.0	80.0
FL100	100	9.60	11.8	14.7	22.7	28.1	32.2	36.2	43.3	47.8	50.0	55.3	63.2	82.0	89.0	95.0	90.0
FL120	120	11.5	14.1	17.7	27.3	33.8	38.6	43.5	52.0	57.3	60.0	66.3	76.0	99.0	107	114	100
FL150	150	14.4	17.6	22.1	34.1	42.2	48.3	54.3	65.0	72.0	75.0	83.0	95.0	124	134	143	150
FL200	200	19.2	23.5	29.5	45.4	56.3	64.4	72.0	87.0	96.0	100	111	126	165	179	190	200
FL250	250	24.0	29.4	36.9	56.8	70.3	80.0	91.0	108	119	125	138	158	206	224	238	249
FL300	300	28.8	35.3	44.2	68.1	84.0	97.0	109	130	143	150	166	190	247	268	285	299
FL350	350	33.6	41.1	51.6	80.0	98.4	113	127	152	167	175	193	221	288	313	333	349
FL400	400	38.4	47.0	59.0	91.0	113	129	145	173	191	200	221	253	329	358	380	399
FL500	500	48.0	58.8	73.7	114	141	161	181	217	239	250	276	316	412	447	475	499

Final de descarga 1.10V por celda

Cell Type	C Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
FL50	50	4.85	6.00	9.40	12.9	17.2	19.8	22.7	27.1	30.5	32.4	34.9	40.8	52.6	55.4	61.3	63.9
FL60	60	5.82	7.20	11.3	15.5	20.7	23.7	27.3	32.5	36.6	38.9	41.9	49.0	63.1	66.5	73.6	76.7
FL70	70	6.79	8.40	13.2	18.1	24.1	27.7	31.8	38.0	42.7	45.4	48.9	57.1	73.7	77.5	86.0	89.0
FL80	80	7.76	9.60	15.0	20.6	27.5	31.6	36.3	43.4	48.8	51.9	55.9	65.3	84.2	89.0	98.0	102
FL100	100	9.70	12.0	18.8	25.8	34.4	39.5	45.4	54.2	61.1	64.8	69.9	81.6	105	111	123	128
FL120	120	11.6	14.4	22.6	30.9	41.3	47.4	54.5	65.1	73.3	77.8	83.8	98.0	126	133	147	153
FL150	150	14.6	18.0	28.2	38.7	51.6	59.3	68.1	81.4	92.0	97.0	105	122	158	166	184	192
FL200	200	19.4	24.0	37.6	51.6	68.9	79.0	91.0	108	122	130	140	163	210	222	245	256
FL250	250	24.3	30.0	47.0	64.5	86.1	99.0	114	136	153	162	175	204	263	277	307	320
FL300	300	29.1	36.0	56.4	77.4	103	119	136	163	183	194	210	245	316	332	368	383
FL350	350	34.0	42.0	65.8	90.0	120	138	159	190	214	227	244	286	368	388	429	447
FL400	400	38.8	48.0	75.2	103	138	158	182	217	244	259	279	326	421	443	491	511
FL500	500	48.5	60.0	94.0	129	172	198	227	271	305	324	349	408	526	554	613	639

Tabla de descarga a 20±5°

final de descarga a 1.05V por celda

Cell Type	c Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
FL50	50	5.20	6.38	9.70	14.5	19.6	23.5	27.4	33.8	37.2	40.8	44.3	50.5	64.1	69.3	75.6	81.0
FL60	60	6.24	7.65	11.6	17.4	23.5	28.3	32.9	40.5	44.6	49.0	53.1	60.6	77.0	83.2	90.7	97.2
FL70	70	7.28	8.93	13.6	20.4	27.4	33.0	38.3	47.3	52.1	57.1	62.0	70.7	89.8	97.0	106	113
FL80	80	8.32	10.2	15.5	23.3	31.3	37.7	43.8	54.0	59.5	65.3	70.9	80.8	103	111	121	130
FL100	100	10.4	12.8	19.4	29.1	39.2	47.1	54.8	67.5	74.4	81.6	88.6	101	128	139	151	162
FL120	120	12.5	15.3	23.3	34.9	47.0	56.5	65.7	81.1	89.3	97.9	106	121	154	166	181	194
FL150	150	15.6	19.1	29.1	43.6	58.7	70.6	82.2	101	112	122	133	152	192	208	227	243
FL200	200	20.8	25.5	38.8	58.1	78.3	94.2	110	135	149	163	177	202	257	277	302	324
FL250	250	26.0	31.9	48.5	72.7	97.9	118	137	169	186	204	221	253	321	347	378	405
FL300	300	31.2	38.3	58.2	87.2	117	141	164	203	223	245	266	303	385	416	454	486
FL350	350	36.4	44.6	67.9	102	137	165	192	236	260	286	310	354	449	485	529	567
FL400	400	41.6	51.0	77.6	116	157	188	219	270	298	326	354	404	513	554	605	648
FL500	500	52.0	63.8	97.0	145	196	235	274	338	372	408	443	505	641	693	756	810

Final de descarga 1v por celda

Cell Type	c Ah	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
FL50	50	5.25	6.44	10.0	16.2	22.0	26.5	33.0	40.7	46.1	49.2	53.9	61.6	78.7	85.4	92.2	102
FL60	60	6.30	7.73	12.0	19.4	26.4	31.7	39.6	48.9	55.3	59.0	64.6	73.9	94.5	103	111	123
FL70	70	7.35	9.01	14.0	22.7	30.8	37.0	46.2	57.0	64.5	68.9	75.4	86.2	110	120	129	143
FL80	80	8.40	10.3	16.0	25.9	35.2	42.3	52.8	65.2	73.7	78.7	86.2	98.5	126	137	147	164
FL100	100	10.5	12.9	20.0	32.4	44.0	52.9	66.0	81.5	92.1	98.4	108	123	157	171	184	204
FL120	120	12.6	15.5	24.0	38.8	52.8	63.5	79.2	97.8	111	118	129	148	189	205	221	245
FL150	150	15.8	19.3	30.0	48.6	66.0	79.4	99.0	122	138	148	162	185	236	256	276	307
FL200	200	21.0	25.8	40.0	64.7	88.0	106	132	163	184	197	215	246	315	342	369	409
FL250	250	26.3	32.2	50.0	80.9	110	132	165	204	230	246	269	308	394	427	461	511
FL300	300	31.5	38.6	60.0	97.1	132	159	198	244	276	295	323	369	472	513	553	613
FL350	350	36.8	45.1	70.0	113	154	185	231	285	322	344	377	431	551	598	645	716
FL400	400	42.0	51.5	80.0	129	176	212	264	326	369	394	431	493	630	684	737	818
FL500	500	52.5	64.4	100	162	220	265	330	407	461	492	539	616	787	854	922	1022

Ciclos

modo de uso	ciclos
100% discharge	1400
50% discharge	3000
30% discharge	5000
float charge mode	25 years

La vida estimada en ciclos esta referida al electrolito original. Se pueden realizar tres cambios de electrolito cuando el nivel de carbonatación del mismo sea superior a 70mg/lit. Cada cambio de electrolito supone una nueva secuencia de ciclos disponible.

