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Battery Performance Data



12TD50F, 12TD100F4, 12TD150F



12TD200F

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RESERVE
POWER

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Constant Current Discharge Table

Discharge Current (A) to 1.6Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	146.00	121.00	99.00	78.00	57.00	41.47	33.70	23.21	17.96	14.81	12.71	10.15	8.62	7.46	6.00	5.18	2.74
12TD100F4	282.00	228.00	189.00	151.50	114.00	87.00	69.00	52.60	40.90	33.10	27.70	23.20	18.80	17.00	12.90	10.70	5.54
12TD150F	360.00	291.00	255.00	210.00	165.00	123.00	102.00	80.10	61.60	49.90	42.00	34.60	28.00	23.90	18.20	15.38	8.40
12TD200F	616.14	442.80	362.20	286.00	209.80	156.33	129.60	91.50	72.00	60.48	52.80	43.13	37.32	31.50	24.24	20.44	10.73

Discharge Current (A) to 1.67Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	131.00	113.00	94.00	75.00	56.00	40.80	33.20	22.86	17.69	14.59	12.52	10.05	8.56	7.39	5.92	5.16	2.71
12TD100F4	252.00	217.00	184.00	148.00	112.00	84.70	68.00	51.50	40.30	32.60	27.40	22.90	18.60	16.90	12.80	10.68	5.44
12TD150F	324.00	280.00	249.00	205.50	162.00	120.67	100.00	78.90	60.70	49.30	41.60	34.40	27.70	23.70	18.10	15.30	8.30
12TD200F	583.20	426.00	352.00	280.00	208.00	155.33	129.00	90.60	71.40	59.88	52.20	42.83	37.20	31.40	24.13	20.41	10.72

Discharge Current (A) to 1.70Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	128.00	107.00	90.00	72.50	55.00	40.33	33.00	22.71	17.57	14.48	12.42	9.86	8.33	7.23	5.85	5.06	2.69
12TD100F4	240.00	200.00	173.00	141.50	110.00	82.50	67.00	50.60	39.00	31.30	26.20	22.00	18.20	16.60	12.56	10.48	5.39
12TD150F	302.00	252.00	229.00	193.00	157.00	117.67	98.00	77.60	59.80	48.70	41.20	34.00	27.50	23.50	17.87	15.20	8.20
12TD200F	528.30	398.00	335.00	270.00	205.00	153.67	128.00	89.60	70.40	58.88	51.20	42.33	37.00	31.20	23.94	20.35	10.68

Discharge Current (A) to 1.75Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	124.00	102.00	87.00	69.50	52.00	39.00	32.50	22.41	17.36	14.33	12.31	9.77	8.25	7.14	5.75	5.03	2.65
12TD100F4	223.00	187.00	160.00	134.00	108.00	81.00	66.00	49.50	37.90	30.40	25.40	21.60	18.00	16.10	12.16	10.23	5.34
12TD150F	275.00	231.00	210.00	179.00	148.00	112.00	94.00	75.80	58.40	47.60	40.40	33.20	27.40	23.00	17.73	15.10	8.10
12TD200F	499.05	376.00	316.50	257.75	199.00	150.00	125.50	87.65	69.18	57.91	50.40	41.59	36.30	30.70	23.63	20.25	10.63

Discharge Current (A) to 1.80Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	115.00	99.00	83.00	66.50	50.00	37.73	31.60	21.91	17.07	14.16	12.22	9.62	8.06	6.98	5.63	5.00	2.60
12TD100F4	206.00	170.00	150.00	128.00	106.00	79.70	65.00	48.40	37.20	29.90	25.30	21.20	17.70	15.60	11.78	10.14	5.28
12TD150F	253.00	219.00	199.00	171.00	143.00	108.33	91.00	73.90	56.60	46.40	39.50	32.30	26.70	22.40	17.23	15.00	7.90
12TD200F	469.80	354.00	298.00	245.50	193.00	146.33	123.00	86.30	67.95	56.94	49.60	40.85	35.60	30.10	23.31	20.10	10.55

Discharge Current (A) to 1.85Vpc at 25°C

Time	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	104.00	96.00	79.00	63.50	48.00	36.47	30.70	21.42	16.77	13.99	12.13	9.47	7.87	6.82	5.51	4.97	2.56
12TD100F4	180.00	153.00	140.00	122.00	104.00	78.30	64.00	46.90	36.30	29.30	25.20	20.80	17.40	15.10	11.40	10.05	5.22
12TD150F	227.00	207.00	188.00	161.00	138.00	104.67	88.00	70.70	54.50	45.20	38.60	31.40	25.90	21.80	16.73	14.90	7.70
12TD200F	440.55	332.00	279.50	233.25	187.00	142.67	120.50	83.50	66.73	55.97	48.80	40.11	34.90	29.60	23.00	19.92	10.46

Constant Power Discharge Table

Discharge Power (Watt per cell) to 1.6Vpc at 25°C

Battery Type	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	235.22	211.50	177.33	143.33	109.33	80.00	65.33	45.25	35.21	29.18	25.17	20.17	17.17	14.87	12.00	10.17	5.34
12TD100F4	454.33	397.50	341.50	278.08	214.67	160.45	133.33	102.10	80.90	64.80	54.50	45.80	37.33	34.00	25.83	21.67	11.45
12TD150F	580.00	509.17	457.00	381.00	305.00	230.33	193.00	153.20	119.00	98.20	82.50	68.70	55.50	48.50	36.69	31.17	16.70
12TD200F	1091.70	805.00	669.00	536.50	404.00	304.89	255.33	180.83	142.86	120.36	105.37	85.47	73.53	62.45	48.61	41.00	21.53

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

Battery Type	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	220.66	208.33	175.00	141.67	108.33	79.45	65.00	45.00	35.00	29.00	25.00	20.00	17.00	14.70	11.83	10.00	5.25
12TD100F4	423.59	391.67	336.67	274.58	212.50	159.17	132.50	100.70	80.10	64.10	54.17	45.50	37.00	33.70	25.50	21.33	11.25
12TD150F	546.00	500.00	450.00	376.00	302.00	228.67	192.00	151.40	117.20	97.50	82.00	68.20	55.00	48.10	36.31	30.67	16.60
12TD200F	1035.00	775.00	650.00	525.00	400.00	302.22	253.33	178.75	141.46	119.08	104.17	84.90	73.33	62.27	48.42	40.80	21.42

Discharge Power (Watt per cell) to 1.7Vpc at 25°C

Battery Type	Minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	222.09	197.50	169.33	138.17	107.00	78.89	64.83	44.83	34.83	28.83	24.83	19.63	16.50	14.35	11.67	9.83	5.16
12TD100F4	416.42	361.67	316.67	263.33	210.00	157.22	130.83	99.10	78.30	62.40	52.50	44.40	36.33	33.10	25.17	21.00	11.15
12TD150F	524.00	450.00	414.33	353.83	293.33	224.11	189.50	149.70	115.80	96.40	81.17	67.40	54.33	47.50	35.88	30.25	16.50
12TD200F	940.50	725.00	618.33	505.83	393.33	297.78	250.00	176.08	139.13	116.95	102.17	83.94	73.00	61.93	48.10	40.46	21.24

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

Battery Type	minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	221.70	190.33	161.17	131.00	100.83	76.28	64.00	44.33	34.50	28.60	24.67	19.46	16.33	14.19	11.50	9.67	5.08
12TD100F4	398.70	339.00	292.67	250.50	208.33	155.33	128.83	97.20	76.40	60.50	50.67	43.20	35.67	32.50	24.67	20.67	11.05
12TD150F	491.67	416.83	398.17	339.50	280.83	213.95	180.50	147.70	114.40	92.80	78.50	64.80	53.50	46.80	35.61	30.00	16.20
12TD200F	905.25	695.83	592.50	488.33	384.17	291.95	245.83	173.00	136.96	115.18	100.67	82.54	71.67	60.92	47.47	40.12	21.06

Discharge Power (Watt per cell) to 1.8Vpc at 25°C

Battery Type	minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	208.18	187.50	158.33	128.33	98.33	74.22	62.17	43.33	33.92	28.27	24.50	19.29	16.17	14.02	11.33	9.50	4.99
12TD100F4	372.92	317.67	283.33	244.17	205.00	153.00	127.00	94.90	75.50	59.70	50.17	42.70	35.17	32.00	24.17	20.33	10.93
12TD150F	458.00	408.33	375.00	324.17	273.33	207.67	174.83	144.80	111.40	92.00	78.00	64.30	53.00	46.30	34.78	29.75	15.90
12TD200F	870.00	666.67	566.67	470.83	375.00	286.11	241.67	170.42	134.79	113.42	99.17	81.15	70.33	59.90	46.84	39.78	20.89

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

Battery Type	minutes						Hours										
	5	10	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	194.67	184.67	155.50	125.67	95.83	72.17	60.33	42.33	33.33	27.93	24.33	19.13	16.00	13.85	11.17	9.33	4.90
12TD100F4	347.14	296.33	274.00	237.83	201.67	150.67	125.17	91.90	74.50	58.90	49.67	42.20	34.67	31.50	23.67	20.00	10.81
12TD150F	424.33	399.83	351.83	308.00	265.83	201.39	169.17	141.50	108.10	91.20	77.50	63.80	52.50	45.80	33.94	29.50	15.70
12TD200F	834.75	637.50	540.83	453.33	365.83	280.28	237.50	166.92	132.63	111.65	97.67	79.75	69.00	58.87	46.21	39.44	20.71



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