

EnerSys®

Power/Full Solutions



genesis[®]
TD

Performance Data

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	99.0	78.0	57.0	41.5	33.7	23.2	18.0	14.8	12.7	10.2	8.6	7.5	6.0	5.2	2.7
12TD100F4	189.0	151.5	114.0	87.0	69.0	52.6	40.9	33.1	27.7	23.2	18.8	17.0	12.9	10.7	5.5
12TD150F	255.0	210.0	165.0	123.0	102.0	80.1	61.6	49.9	42.0	34.6	28.0	23.9	18.2	15.4	8.4
12TD170FT	255.0	210.0	167.7	128.4	108.2	79.4	64.3	53.1	45.2	36.3	30.4	25.8	20.5	17.4	8.9
12TD190FT	334.0	265.2	206.0	157.7	124.4	91.2	73.9	61.1	51.7	41.6	34.7	29.5	23.2	19.5	10.2
12TD200FT	352.0	310.5	235.9	173.2	132.1	94.4	75.5	61.8	52.7	41.9	35.0	30.2	25.4	20.6	10.8

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	94.0	75.0	56.0	40.8	33.2	22.9	17.7	14.6	12.5	10.1	8.6	7.4	5.9	5.2	2.7
12TD100F4	184.0	148.0	112.0	84.7	68.0	51.5	40.3	32.6	27.4	22.9	18.6	16.9	12.8	10.7	5.4
12TD150F	249.0	205.5	162.0	120.7	100.0	78.9	60.7	49.3	41.6	34.4	27.7	23.7	18.1	15.3	8.3
12TD170FT	249.0	205.5	165.6	126.8	107.2	79.0	64.0	52.9	44.9	36.2	30.2	25.7	20.3	17.4	8.9
12TD190FT	328.1	261.7	204.4	156.5	123.7	90.9	73.7	60.9	51.5	41.4	34.6	29.4	23.0	19.5	10.2
12TD200FT	341.0	303.6	233.5	171.8	131.8	94.2	75.3	61.7	52.6	41.8	34.9	30.1	25.3	20.5	10.7

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	90.0	72.5	55.0	40.3	33.0	22.7	17.6	14.5	12.4	9.9	8.3	7.2	5.9	5.1	2.7
12TD100F4	173.0	141.5	110.0	82.5	67.0	50.6	39.0	31.3	26.2	22.0	18.2	16.6	12.6	10.5	5.4
12TD150F	229.0	193.0	157.0	117.7	98.0	77.6	59.8	48.7	41.2	34.0	27.5	23.5	17.9	15.2	8.2
12TD170FT	229.0	193.0	164.1	125.6	106.5	78.7	63.7	52.8	44.9	36.1	30.1	25.6	20.2	17.3	8.8
12TD190FT	317.6	255.2	201.5	154.3	122.4	90.4	73.2	60.7	51.3	41.3	34.4	29.3	22.9	19.4	10.1
12TD200FT	333.5	298.0	230.9	170.6	131.6	94.0	75.2	61.6	52.5	41.8	34.9	30.1	25.3	20.4	10.7

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	87.0	69.5	52.0	39.0	32.5	22.4	17.4	14.3	12.3	9.8	8.3	7.1	5.8	5.0	2.7
12TD100F4	160.0	134.0	108.0	81.0	66.0	49.5	37.9	30.4	25.4	21.6	18.0	16.1	12.2	10.2	5.3
12TD150F	210.0	179.0	148.0	112.0	94.0	75.8	58.4	47.6	40.4	33.2	27.4	23.0	17.7	15.1	8.1
12TD170FT	210.0	179.0	159.4	122.1	104.2	77.9	63.0	52.4	44.6	35.8	29.8	25.5	20.1	17.2	8.8
12TD190FT	300.3	244.5	195.9	150.0	119.7	89.6	72.4	60.2	51.0	41.0	34.1	29.1	22.8	19.2	10.0
12TD200FT	316.4	286.5	222.2	166.6	131.0	93.6	74.9	61.4	52.4	41.6	34.7	30.0	25.2	20.3	10.6

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	83.0	66.5	50.0	37.7	31.6	21.9	17.1	14.2	12.2	9.6	8.1	7.0	5.6	5.0	2.6
12TD100F4	150.0	128.0	106.0	79.7	65.0	48.4	37.2	29.9	25.3	21.2	17.7	15.6	11.8	10.1	5.3
12TD150F	199.0	171.0	143.0	108.3	91.0	73.9	56.6	46.4	39.5	32.3	26.7	22.4	17.2	15.0	7.9
12TD170FT	199.0	171.0	151.5	115.9	99.7	76.4	61.9	51.5	44.0	35.3	29.2	25.1	19.9	17.0	8.7
12TD190FT	275.3	227.4	186.1	142.4	114.6	87.9	71.1	59.2	50.3	40.4	33.4	28.7	22.5	19.0	9.9
12TD200FT	293.0	265.3	206.2	159.1	129.4	92.8	74.1	61.0	52.1	41.4	34.5	29.7	25.0	20.1	10.5

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	79.0	63.5	48.0	36.5	30.7	21.4	16.8	14.0	12.1	9.5	7.9	6.8	5.5	5.0	2.6
12TD100F4	140.0	122.0	104.0	78.3	64.0	46.9	36.3	29.3	25.2	20.8	17.4	15.1	11.4	10.1	5.2
12TD150F	188.0	161.0	138.0	104.7	88.0	70.7	54.5	45.2	38.6	31.4	25.9	21.8	16.7	14.9	7.7
12TD170FT	188.0	161.0	138.6	105.7	92.2	73.7	59.7	49.8	42.6	34.2	28.3	24.3	19.3	16.4	8.4
12TD190FT	240.1	202.3	170.3	129.9	106.0	84.7	68.6	57.2	48.7	39.1	32.3	27.7	21.9	18.4	9.6
12TD200FT	265.1	238.0	181.9	145.3	126.5	91.1	72.5	60.2	51.4	40.8	33.9	29.2	24.5	19.7	10.1

Constant Power Discharge Performance Data



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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	177.3	143.3	109.3	80.0	65.3	45.3	35.2	29.2	25.2	20.2	17.2	14.9	12.0	10.2	5.3
12TD100F4	341.5	278.1	214.7	160.5	133.3	102.1	80.9	64.8	54.5	45.8	37.3	34.0	25.8	21.7	11.5
12TD150F	457.0	381.0	305.0	230.3	193.0	153.2	119.0	98.2	82.5	68.7	55.5	48.5	36.7	31.2	16.7
12TD170FT	457.0	381.0	310.8	241.2	207.2	153.6	125.4	102.9	89.0	71.5	60.1	51.3	40.6	34.3	17.6
12TD190FT	603.5	481.4	382.7	297.0	239.4	177.5	144.9	118.8	101.7	81.8	68.7	58.7	46.0	38.3	20.2
12TD200FT	646.0	579.4	450.8	317.2	258.0	185.3	145.4	119.7	105.4	82.9	69.0	60.3	48.6	41.1	21.9

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	175.0	141.7	108.3	79.5	65.0	45.0	35.0	29.0	25.0	20.0	17.0	14.7	11.8	10.0	5.3
12TD100F4	336.7	274.6	212.5	159.2	132.5	100.7	80.1	64.1	54.2	45.5	37.0	33.7	25.5	21.3	11.3
12TD150F	450.0	376.0	302.0	228.7	192.0	151.4	117.2	97.5	82.0	68.2	55.0	48.1	36.3	30.7	16.6
12TD170FT	450.0	376.0	307.8	238.9	205.8	153.2	125.0	102.6	88.8	71.3	59.9	51.2	40.5	34.1	17.6
12TD190FT	588.5	472.9	378.9	294.1	237.7	177.0	144.4	118.5	101.5	81.5	68.5	58.5	45.9	38.1	20.1
12TD200FT	629.7	567.6	446.2	315.9	257.4	184.8	145.2	119.5	105.2	82.8	68.8	60.2	48.5	41.0	21.7

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	169.3	138.2	107.0	78.9	64.8	44.8	34.8	28.8	24.8	19.6	1650.0	14.4	11.7	9.8	5.2
12TD100F4	316.7	263.3	210.0	157.2	130.8	99.1	78.3	62.4	52.5	44.4	36.3	33.1	25.2	21.0	11.2
12TD150F	414.3	353.8	293.3	224.1	189.5	149.7	115.8	96.4	81.2	67.4	54.3	47.5	35.9	30.3	16.5
12TD170FT	414.3	353.8	305.5	237.0	204.6	152.8	124.7	102.4	88.6	71.1	59.7	51.1	40.4	34.1	17.5
12TD190FT	577.2	466.5	376.1	291.7	236.3	176.6	144.1	118.3	101.3	81.3	68.3	58.4	45.8	38.1	20.1
12TD200FT	618.1	556.4	442.0	314.5	257.0	184.4	145.1	119.4	105.0	82.7	68.8	60.2	48.4	40.9	21.7

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	161.2	131.0	100.8	76.3	64.0	44.3	34.5	28.6	24.7	19.5	16.3	14.2	11.5	9.7	5.1
12TD100F4	292.7	250.5	208.3	155.3	128.8	97.2	76.4	60.5	50.7	43.2	35.7	32.5	24.7	20.7	11.1
12TD150F	398.2	339.5	280.8	214.0	180.5	147.7	114.4	92.8	78.5	64.8	53.5	46.8	35.6	30.0	16.2
12TD170FT	398.2	339.5	298.7	231.6	200.7	151.8	123.7	101.8	88.2	70.6	59.2	50.8	40.2	33.9	17.5
12TD190FT	549.6	450.4	367.7	285.1	231.9	175.3	142.9	117.6	100.9	80.7	67.7	58.1	45.6	37.8	20.0
12TD200FT	590.5	533.3	428.7	309.3	255.1	183.4	144.8	119.1	104.7	82.5	68.6	60.0	48.2	40.7	21.4

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	158.3	128.3	98.3	74.2	62.2	43.3	33.9	28.3	24.5	19.3	16.2	14.0	11.3	9.5	5.0
12TD100F4	283.3	244.2	205.0	153.0	127.0	92.9	75.5	59.7	50.2	42.7	35.2	32.0	24.2	20.3	10.9
12TD150F	375.0	324.2	273.3	207.7	174.8	144.8	111.4	92.0	78.0	67.3	53.0	46.3	34.8	29.8	15.9
12TD170FT	375.0	324.2	286.9	222.1	193.0	149.3	121.7	100.3	87.1	69.7	58.3	50.1	39.7	33.4	17.3
12TD190FT	509.5	424.9	353.2	273.4	223.0	172.5	140.6	115.9	99.6	79.8	66.6	57.3	45.0	37.4	19.8
12TD200FT	550.1	502.9	403.5	298.2	249.3	181.4	143.9	118.3	104.2	81.9	68.1	59.5	47.8	40.2	21.0

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

Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
	15	20	30	45	1	1.5	2	2.5	3	4	5	6	8	10	20
12TD50F	155.5	125.7	95.8	72.2	60.3	42.3	33.3	27.9	24.3	19.1	16.0	13.9	11.2	9.3	4.9
12TD100F4	274.0	237.8	201.7	150.7	125.2	91.9	74.5	58.9	49.7	42.2	34.7	31.5	23.7	20.0	10.8
12TD150F	351.8	308.0	265.8	201.4	169.2	141.5	108.1	91.2	77.5	63.8	52.5	45.8	33.9	29.5	15.7
12TD170FT	351.8	308.0	267.9	206.5	179.9	144.5	117.9	97.1	84.8	67.7	56.6	48.6	38.6	32.3	16.9
12TD190FT	453.0	387.4	329.8	254.3	207.8	167.0	136.2	112.1	97.0	77.4	64.7	55.6	43.7	36.1	19.3
12TD200FT	502.4	449.9	362.2	279.0	237.8	177.6	142.0	116.5	102.2	80.7	67.0	58.5	46.8	39.1	19.9



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