

# 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	178.9	148.7	113.0	84.4	68.1	49.8	39.6	33.0	28.4	22.3	18.4	15.7	12.2	10.0	5.3
12TD150F	256.0	214.6	164.6	124.1	100.6	73.9	58.9	49.2	42.4	33.3	27.6	23.5	18.3	15.0	7.9
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	315.2	265.2	204.3	154.7	125.7	92.7	74.1	62.0	53.4	42.1	34.9	29.8	23.2	19.0	10.0
12TD200FT	379.6	322.6	243.2	180.1	144.4	104.7	82.7	68.7	58.9	46.0	37.9	32.3	25.0	20.4	10.7

## 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	178.0	148.7	113.0	84.4	68.1	49.8	39.6	33.0	28.4	22.3	18.4	15.7	12.2	10.0	5.3
12TD150F	245.9	212.0	164.6	124.1	100.6	73.9	58.9	49.2	42.4	33.3	27.6	23.5	18.3	15.0	7.9
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	313.5	265.2	204.3	154.7	125.7	92.7	74.1	62.0	53.4	42.1	34.9	29.8	23.2	19.0	10.0
12TD200FT	351.6	304.1	239.0	180.1	144.4	104.7	82.7	68.7	58.9	46.0	37.9	32.3	25.0	20.4	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	174.0	147.6	113.0	84.4	68.1	49.8	39.6	33.0	28.4	22.3	18.4	15.7	12.2	10.0	5.3
12TD150F	237.6	206.6	163.7	124.1	100.6	73.9	58.9	49.2	42.4	33.3	27.6	23.5	18.3	15.0	7.9
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	306.4	262.0	204.3	154.7	125.7	92.7	74.1	62.0	53.4	42.1	34.9	29.8	23.2	19.0	10.0
12TD200FT	336.8	293.2	232.9	178.0	144.3	104.7	82.7	68.7	58.9	46.0	37.9	32.3	25.0	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	163.7	140.9	110.4	84.0	68.1	49.8	39.6	33.0	28.4	22.3	18.4	15.7	12.2	10.0	5.3
12TD150F	219.8	193.6	156.5	121.6	99.82	73.9	58.9	49.2	42.4	33.3	27.6	23.5	18.3	15.0	7.9
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	286.7	248.6	197.4	152.4	125.0	92.7	74.1	62.0	53.4	42.1	34.9	29.8	23.2	19.0	10.0
12TD200FT	308.3	271.4	219.1	170.4	139.7	103.2	82.2	68.6	58.9	46.0	37.9	32.3	25.0	20.4	10.7

## 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	149.4	130.1	103.9	80.3	65.8	48.8	39.0	32.7	28.2	22.2	18.4	15.7	12.2	10.0	5.3
12TD150F	197.4	176.0	144.8	114.7	95.1	71.4	57.5	48.3	41.8	33.1	27.4	23.5	18.3	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	259.4	227.8	184.3	144.6	119.8	89.9	72.5	60.9	52.7	41.7	34.7	29.7	23.2	19.0	10.0
12TD200FT	275.7	245.2	200.9	158.6	131.6	98.5	79.1	66.3	57.2	45.0	37.2	31.8	24.7	20.2	10.7

## 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	131.6	116.0	94.0	73.8	61.0	45.8	36.9	31.0	26.8	21.2	17.6	15.1	11.8	9.7	5.2
12TD150F	171.8	154.5	128.9	103.7	86.9	66.1	53.7	45.3	39.3	31.1	25.9	22.2	17.4	14.3	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	226.3	201.1	165.5	132.0	110.5	83.9	68.1	57.6	50.0	39.7	33.0	28.4	22.2	18.2	9.7
12TD200FT	239.4	214.8	178.5	143.1	119.7	90.8	73.5	62.0	53.7	42.5	35.3	30.2	23.5	19.3	10.2

# 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	314.3	266.4	207.1	157.8	128.6	95.2	76.1	63.8	55.1	43.5	36.1	30.9	24.1	19.8	10.6
12TD150F	436.0	374.6	296.1	228.3	187.4	139.8	112.4	94.5	81.7	64.6	53.7	46.0	35.9	29.5	15.8
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	549.4	470.2	370.7	286.0	235.1	175.9	141.7	119.3	103.3	81.8	68.1	58.4	45.6	37.5	20.0
12TD200FT	637.8	552.5	432.6	329.1	267.8	197.7	157.8	132.0	113.7	89.44	74.0	63.2	49.1	40.2	21.3

## 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	312.7	266.4	207.1	157.8	128.6	95.2	76.1	63.8	55.1	43.5	36.1	30.9	24.1	19.8	10.6
12TD150F	425.1	371.5	296.1	228.3	187.4	139.8	112.4	94.56	81.7	64.6	53.7	46.0	35.9	29.5	15.8
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	548.0	469.9	370.7	286.0	235.1	175.9	141.7	119.3	103.3	81.8	68.1	58.4	45.6	37.5	20.0
12TD200FT	606.3	530.7	425.8	328.9	267.8	197.7	157.8	132.0	113.7	89.4	74.0	63.2	49.1	40.2	21.3

## 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	307.9	264.5	207.1	157.8	128.6	95.2	76.1	63.8	55.1	43.5	36.1	30.9	24.1	19.8	10.6
12TD150F	415.3	364.9	294.4	228.3	187.4	139.8	112.4	94.56	81.7	64.6	53.7	46.0	35.9	29.5	15.8
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	539.7	466.9	370.3	286.0	235.1	175.9	141.7	119.3	103.3	81.8	68.1	58.4	45.6	37.5	20.0
12TD200FT	587.7	517.2	417.7	325.3	267.1	197.7	157.8	132.0	113.7	89.4	74.0	63.2	49.1	40.2	21.3

## 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	294.5	255.7	203.4	157.0	128.5	95.2	76.1	63.8	55.1	43.5	36.1	30.9	24.1	19.8	10.6
12TD150F	391.8	348.1	284.8	224.8	186.3	139.7	112.4	94.5	81.7	64.6	53.7	46.0	35.9	29.5	15.8
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	514.2	449.5	361.2	282.7	233.9	175.9	141.7	119.3	103.3	81.8	68.1	58.4	45.6	37.5	20.0
12TD200FT	549.6	487.9	399.0	314.4	260.5	195.2	156.8	131.7	113.7	89.4	74.0	63.2	49.1	40.2	21.3

## 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	273.7	240.3	193.9	151.4	125.0	93.5	75.3	63.3	54.8	43.3	36.0	30.9	24.1	19.8	10.6
12TD150F	359.8	322.6	268.0	214.4	179.2	136.0	110.2	93.1	80.8	64.2	53.5	45.9	35.9	29.5	15.8
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	474.0	419.5	342.4	271.1	226.2	171.6	139.2	117.8	102.2	81.2	67.7	58.2	45.6	37.5	20.0
12TD200FT	502.4	449.5	372.2	297.0	248.2	187.8	151.9	128.1	110.8	87.7	72.8	62.3	48.6	39.9	21.3

## 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	246.4	218.1	178.4	141.1	117.5	88.7	71.7	60.6	52.5	41.6	34.7	29.7	23.3	19.2	10.3
12TD150F	320.4	289.3	243.2	197.0	166.3	127.4	104.0	88.2	76.6	61.0	50.9	43.7	34.3	28.3	15.3
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	423.0	377.4	313.1	251.5	211.7	162.0	132.2	112.2	97.5	77.8	65.1	55.9	43.9	36.2	19.5
12TD200FT	446.4	402.3	337.0	272.0	229.2	175.3	142.8	120.9	105.0	83.5	69.6	59.6	46.6	38.3	20.4



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