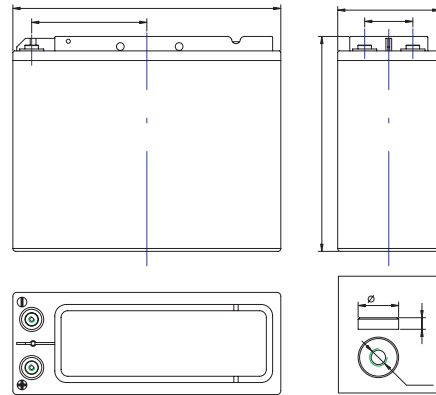


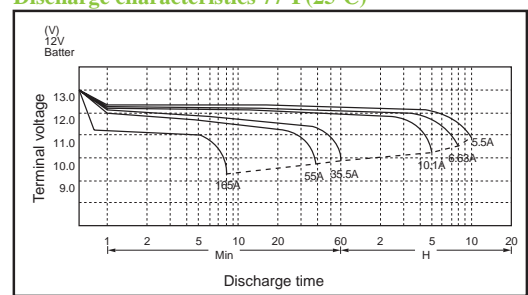
SA-FAT55-12



Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate to 1.80Vpc)		55AH
Rated Capacity(8 hour rate to 1.75Vpc)		53AH
Dimension	Total Height (with terminals)	223mm(8.78 inches)
	Height	223mm(8.78 inches)
	Length	278mm(10.94 inches)
	Width	106mm(4.17 inches)
Weight		Approx.17.5kg(38.58lbs)

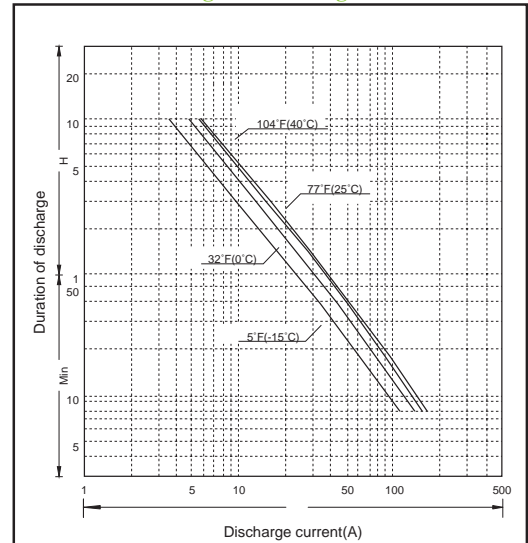
Discharge characteristics 77°F(25°C)



Characteristics

Capacity 77°F(25°C)	10 hour rate(5.5A)	55AH
	8 hour rate(6.63A)	53AH
	5 hour rate(10.1A)	50.3AH
	1 hour rate(35.5A)	35.5AH
Internal Resistance	Full charged Battery 77°F(25°C)	8mΩ
Capacity affected by Temperature (10 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77°F(25°C)		825A(5S)
Terminal	Standard	F13
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 11A Or Small 14.5V~14.9V/77°F(25°C)
	Float	13.6V~13.8V/77°F(25°C)

Duration of discharge vs. Discharge current

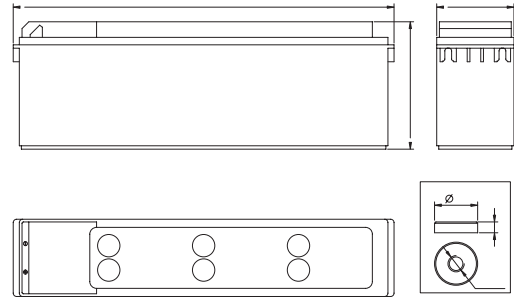


Constant Power Discharge Watts Per Cell @ 77°F(25°C)

Cut off voltageV/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.60	387	273	218	130	94.8	75.2	43.7	30.5	20.5	13.3	11.1	9.56	4.91
1.65	381	271	216	129	93.9	74.4	43.3	30.2	20.5	13.3	11.1	9.56	4.91
1.67	377	268	213	128	92.9	73.8	43.0	30.0	20.5	13.3	11.1	9.56	4.91
1.70	366	262	207	125	90.9	73.0	42.6	29.7	20.5	13.3	11.1	9.56	4.91
1.75	353	252	199	121	88.9	71.7	42.1	29.3	20.2	13.1	11.0	9.56	4.91
1.80	340	243	191	117	86.9	70.5	41.5	29.0	19.9	12.9	10.8	9.44	4.91

Note The above data are average values, and can be obtained within 3 charge/discharge cy-

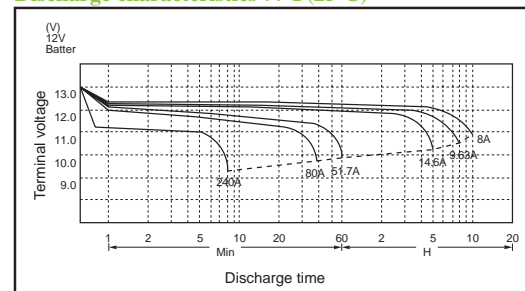
SA-FAT80-12



Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate to 1.80Vpc)		80AH
Rated Capacity(8 hour rate to 1.75Vpc)		77AH
Dimension	Total Height (with terminals)	188mm(7.40 inches)
	Height	188mm(7.40inches)
	Length	562mm(22.13inches)
	Width	114mm(4.49 inches)
Weight		Approx.28.5kg(62.83lbs)

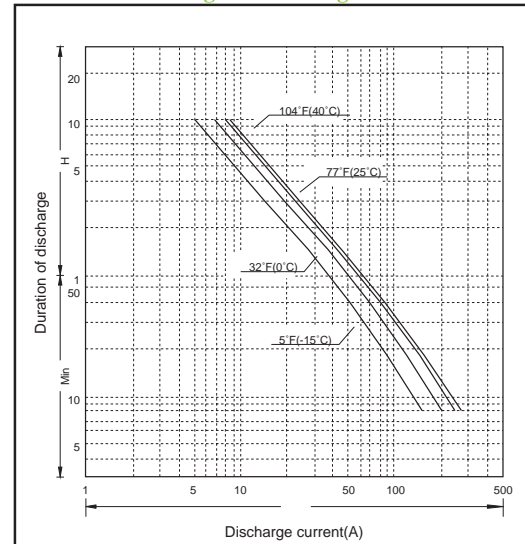
Discharge characteristics 77°F(25°C)



Characteristics

Capacity 77°F(25°C)	10 hour rate(8A)	80AH
	8 hour rate(9.63A)	77AH
	5 hour rate(14.6A)	73.1AH
	1 hour rate(51.7A)	51.7AH
Internal Resistance	Full charged Battery 77°F(25°C)	5mΩ
Capacity affected by Temperature (10 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77°F(25°C)	1200A(5S)	
Terminal	Standard	F15
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 16A Or Small 14.5V-14.97V/77°F(25°C)
	Float	13.6V-13.8V/77°F(25°C)

Duration of discharge vs. Discharge current

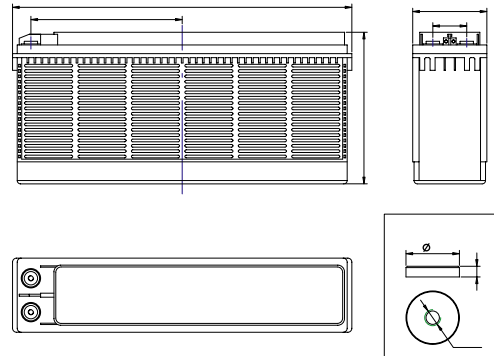


Constant Power Discharge Watts Per Cell @ 77°F(25°C)

Cut off voltageV/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.60	544	393	314	189	136	105	61.3	42.7	28.7	18.8	15.8	13.7	7.02
1.65	534	389	310	187	134	104	60.9	42.4	28.7	18.8	15.8	13.7	7.02
1.67	528	385	305	186	133	104	60.5	42.1	28.7	18.8	15.8	13.7	7.02
1.70	512	374	295	181	130	103	60.2	41.7	28.7	18.8	15.8	13.7	7.02
1.75	490	358	283	174	127	101	59.6	41.2	28.3	18.5	15.7	13.7	7.02
1.80	469	343	270	167	124	99.3	59.0	40.7	27.9	18.2	15.4	13.4	7.02

Note The above data are average values, and can be obtained within 3 charge/discharge cy-

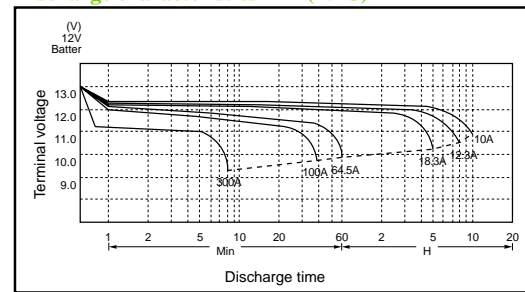
SA-FAT100-12



Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate to 1.80Vpc)		100AH
Rated Capacity(8 hour rate to 1.75Vpc)		98AH
Dimension	Total Height (with terminals)	227mm(8.931inches)
	Height	227mm(8.93inches)
	Length	508mm(20.00 inches)
	Width	111mm(4.37 inches)
Weight		Approx.36.3kg(80.03lbs)

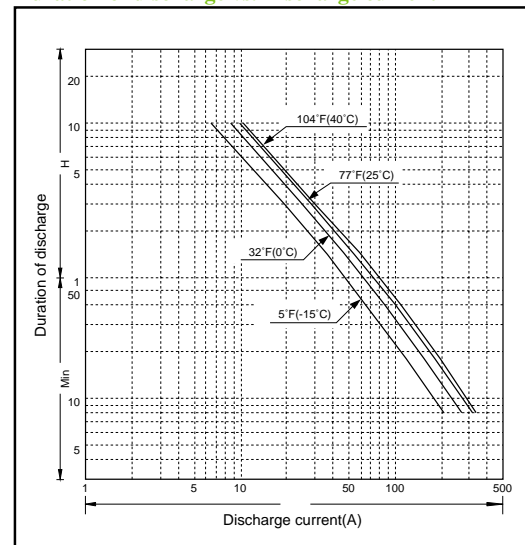
Discharge characteristics 77°F(25°C)



Characteristics

Capacity 77°F(25°C)	10 hour rate(10A)	100AH
	8 hour rate(12.3A)	98AH
	5 hour rate(18.3A)	91.4AH
	1 hour rate(64.5A)	64.5AH
Internal Resistance	Full charged Battery 77°F(25°C)	3.3mΩ
Capacity affected by Temperature (10 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77°F(25°C)	1500A(5S)	
Terminal	Standard	F17
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 20A Or Small 14.5V~14.9V/77°F(25°C)
	Float	13.6V~13.8V/77°F(25°C)

Duration of discharge vs. Discharge current

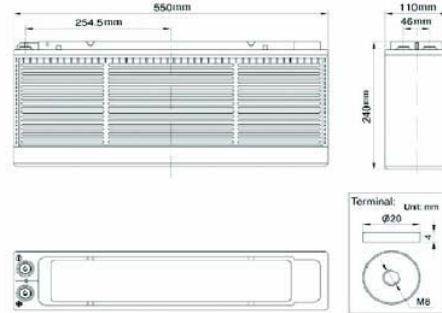


Constant Power Discharge Watts Per Cell @ 77°F(25°C)

Cut off voltage V/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.60	693	511	410	249	179	138	80.6	56.2	37.7	24.9	21.0	18.1	9.33
1.65	678	504	404	247	177	137	80.2	55.7	37.7	24.9	21.0	18.1	9.33
1.67	670	498	398	245	176	136	79.8	55.3	37.7	24.9	21.0	18.1	9.33
1.70	647	482	383	239	172	135	79.4	54.9	37.7	24.8	21.0	18.1	9.33
1.75	616	460	366	229	168	133	78.8	54.3	37.2	24.4	20.8	18.1	9.33
1.80	587	439	350	221	163	131	78.1	53.7	36.7	24.0	20.4	17.8	9.33

Note The above data are average values, and can be obtained within 3 charge/discharge cy-

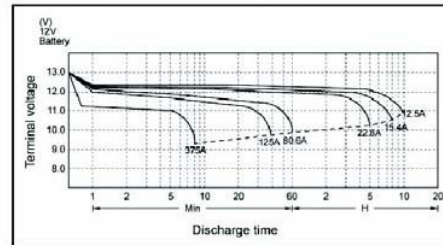
SA-FAT125-12



Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate to 1.80Vpc)		125AH
Rated Capacity(8 hour rate to 1.75Vpc)		123AH
Dimension	Total Height (with terminals)	240mm(9.45inches)
	Height	240mm(9.45inches)
	Length	550mm(21.65 inches)
	Width	110mm(4.33inches)
Weight		Approx.43.5kg(95.90lbs)

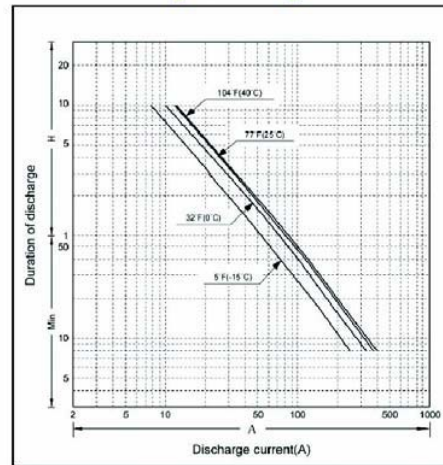
Discharge characteristics 77 F(25° C)



Characteristics

Capacity 77 F(25° C)	10 hour rate(12.5A)	125AH
	8 hour rate(15.4A)	123AH
	5 hour rate(22.8A)	114.2AH
	1 hour rate(80.6A)	80.6AH
Internal Resistance	Full charged Battery 77 F(25° C)	2.8mΩ
Capacity affected by Temperature (10 hour rate)	104° F(40° C)	102%
	77° F(25° C)	100%
	32° F(0° C)	85%
	5° F(-15° C)	65%
Self-Discharge 77 F(25° C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77 F(25° C)	187.5A(5S)	
Terminal	Standard	F17
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 25A Or Small 14.5V~14.9V/77 F(25° C)
	Float	13.6V~13.8V/77 F(25° C)

Duration of discharge vs. Discharge current



Constant Power Discharge Watts Per Cell @ 77 F(25° C)

Cut off voltageV/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.60	791	600	486	303	222	174	101	70.7	47.4	31.2	26.4	22.8	11.7
1.65	765	586	476	300	220	172	101	70.1	47.3	31.2	26.4	22.8	11.7
1.67	756	579	470	297	218	171	100	69.5	47.2	31.2	26.4	22.8	11.7
1.70	725	558	452	291	215	169	100	69.0	47.1	31.2	26.4	22.8	11.7
1.75	688	530	433	282	209	168	99.1	68.5	46.6	30.8	26.1	22.8	11.7
1.80	650	503	413	273	204	166	98.3	67.9	46.1	30.3	25.7	22.4	11.7

Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.