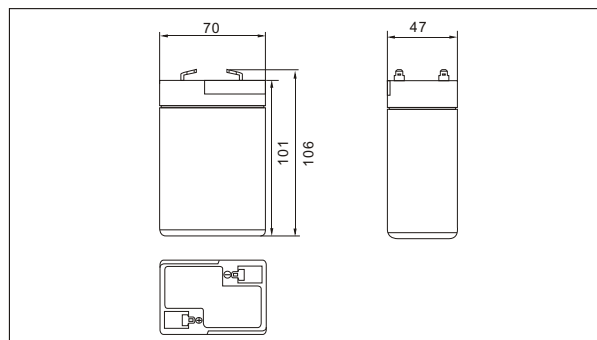




SW645(6V4.5AH)



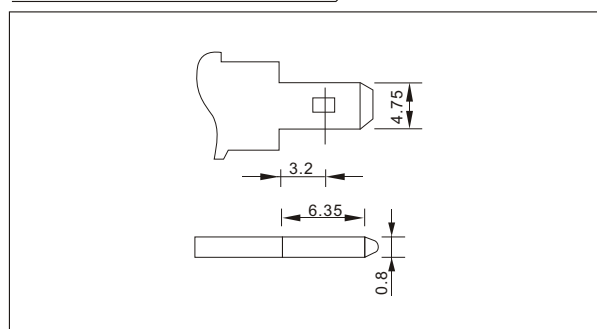
Outer dimensions (mm)



Specifications

Nominal Voltage		6 V
Rated capacity (20 hour rate)		4.5 Ah
Dimensions	Total Height	106 mm(4.17 inches)
	Height	101 mm(3.98 inches)
	Length	70 mm(2.76 inches)
	Width	47 mm(1.85 inches)
Weight Approx		0.70Kg(1.54 lbs)

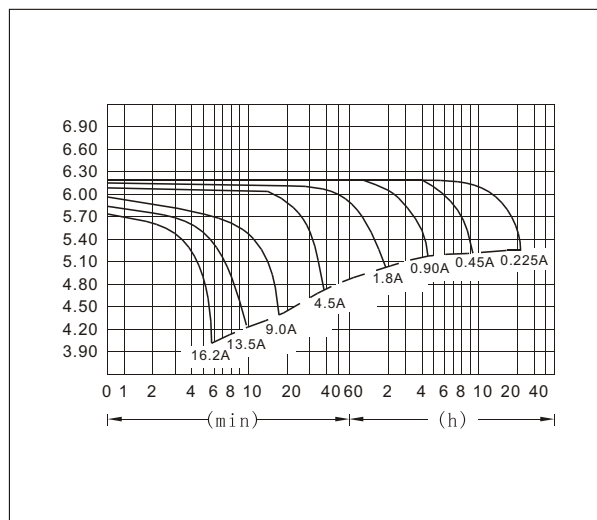
Terminal Type (mm)



Characteristics

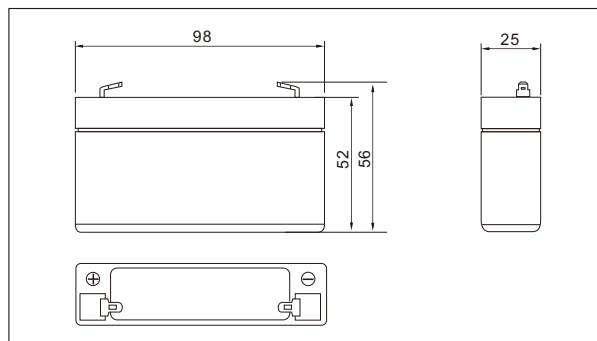
Capacity 25°C(77°F)	20 hour rate(0.225A)	4.50 AH
	10 hour rate(0.41A)	4.10 AH
	5 hour rate(0.77A)	3.85 AH
	1 hour rate(2.70A)	2.70 AH
	1.5 hour discharge to 5.25 V	1.8 A
Internal Resistance		Full charged Battery at 25°C(77°F) 27.5 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T1
Charge (constant Voltage)	Cycle	Initial Charging Current less than 1.8A Voltage 7.20-7.35V
	Float	Voltage 6.75-6.90V

Discharge Curves 25°C(77°F)

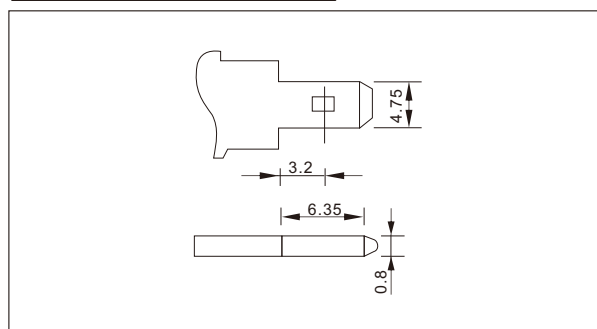


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

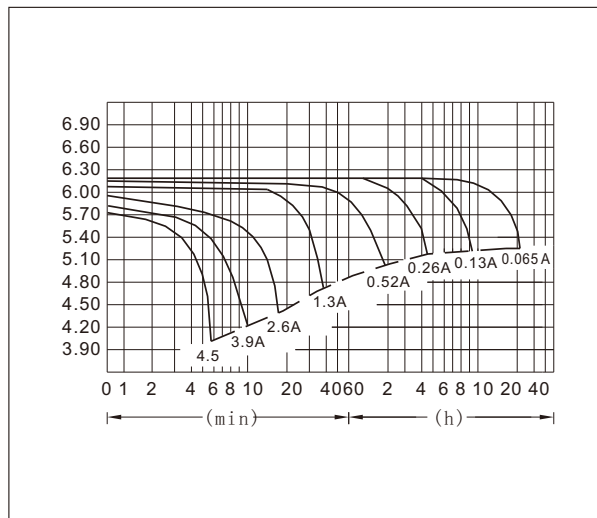
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
4.80V	A 16.2	10.2	7.88	5.18	2.70	1.58	1.16	0.93	0.79	0.52	0.43	0.230
	W 95.5	60.0	45.4	27.5	15.6	9.1	6.7	5.4	4.6	3.0	2.5	1.35
5.10V	A 14.9	9.94	7.24	4.91	2.53	1.51	1.13	0.90	0.77	0.51	0.42	0.230
	W 89.9	59.1	42.7	27.3	14.6	8.7	6.5	5.2	4.5	3.0	2.4	1.31
5.25V	A 13.8	9.50	6.75	4.76	2.45	1.48	1.11	0.86	0.77	0.51	0.41	0.225
	W 86.8	55.1	40.8	27.0	14.2	8.6	6.4	5.0	4.5	2.9	2.4	1.30
5.40V	A 12.5	9.08	6.30	4.55	2.37	1.44	1.09	0.84	0.73	0.49	0.40	0.223
	W 82.9	53.4	39.3	26.9	13.8	8.4	6.3	4.9	4.3	2.8	2.3	1.28
5.55V	A 10.8	8.55	5.85	4.23	2.29	1.41	1.03	0.82	0.70	0.48	0.39	0.210
	W 64.6	51.7	37.4	26.7	13.6	8.3	6.1	4.9	4.2	2.7	2.3	1.27

**SW613(6V1.3AH)****Outer dimensions (mm)****Specifications**

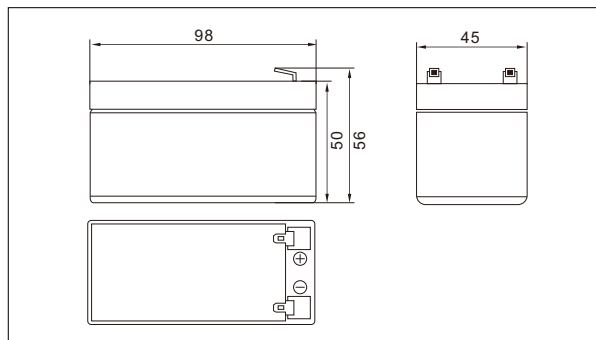
Nominal Voltage		6 V
Rated capacity (20 hour rate)		1.3 Ah
Dimensions	Total Height	56mm (2.20 inches)
	Height	52mm (2.05 inches)
	Length	98mm (3.86 inches)
	Width	25 mm (0.98 inches)
Weight Approx		0.31 Kg (0.68lbs)

Terminal Type (mm)**Characteristics**

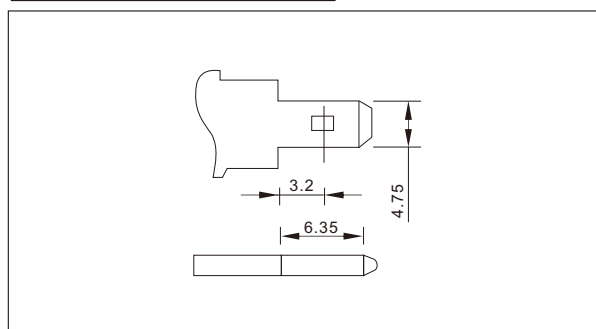
Capacity 25°C(77°F)	20 hour rate(0.065 A)	1.30 AH
	10 hour rate(0.12 A)	1.20 AH
	5 hour rate(0.22 A)	1.10 AH
	1 hour rate(0.78 A)	0.78 AH
	1.5 hour discharge to 5.25 V	0.52 A
Internal Resistance	Full charged Battery at 25°C(77°F)	37 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T0
Charge (constant Voltage)	Cycle	Initial Charging Current less than 0.52 A Voltage 7.05-7.20 V
	Float	Voltage 6.75-6.90 V

Discharge Curves 25°C(77°F)**Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)**

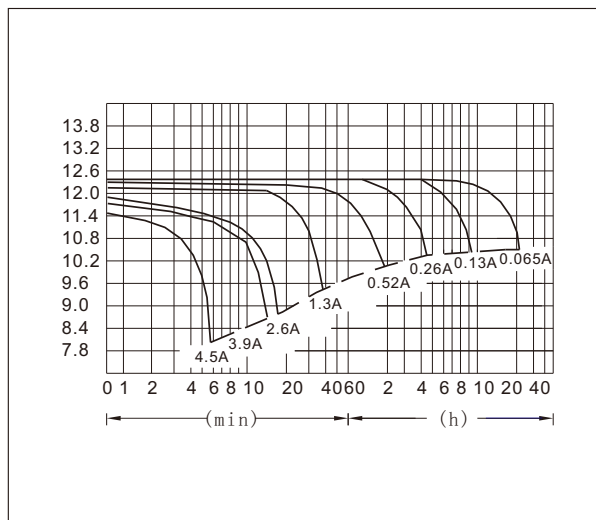
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
4.80V	A	4.50	2.82	2.19	1.44	0.78	0.46	0.33	0.27	0.23	0.15	0.12	0.067
	W	26.5	16.7	12.6	7.6	4.5	2.6	1.94	1.55	1.32	0.87	0.71	0.39
5.10V	A	4.13	2.76	2.01	1.36	0.73	0.44	0.33	0.26	0.22	0.15	0.12	0.067
	W	25.0	16.4	11.8	7.6	4.2	2.5	1.88	1.51	1.29	0.86	0.70	0.38
5.25V	A	3.83	2.64	1.88	1.32	0.71	0.43	0.32	0.25	0.22	0.15	0.12	0.065
	W	24.1	15.3	11.3	7.5	4.1	2.5	1.85	1.43	1.29	0.85	0.69	0.38
5.40V	A	3.48	2.52	1.75	1.26	0.68	0.42	0.31	0.24	0.21	0.14	0.12	0.063
	W	23.0	14.8	10.9	7.5	4.0	2.4	1.83	1.41	1.23	0.81	0.68	0.37
5.55V	A	3.01	2.38	1.63	1.18	0.66	0.41	0.30	0.24	0.20	0.14	0.11	0.062
	W	17.9	14.3	10.4	7.4	3.9	2.4	1.77	1.41	1.20	0.79	0.66	0.37

**SW1213(12V1.3AH)****Outer dimensions (mm)****Specifications**

Nominal Voltage		12V
Rated capacity (20 hour rate)		1.3Ah
Dimensions	Total Height	56mm (2.20 inches)
	Height	50mm (1.97 inches)
	Length	98mm (3.86 inches)
	Width	45mm (1.77 inches)
Weight Approx		0.55Kg (1.21 lbs)

Terminal Type (mm)**Characteristics**

Capacity 25°C(77°F)	20 hour rate(0.065A)	1.30 AH
	10 hour rate(0.12A)	1.20 AH
	5 hour rate(0.22 A)	1.10 AH
	1 hour rate(0.78 A)	0.78 AH
	1.5 hour discharge to 10.5V	0.52 A
Internal Resistance	Full charged Battery at 25°C(77°F)	75 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T0
Charge (constant Voltage)	Cycle	Initial Charging Current less than 0.52A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

Discharge Curves 25°C(77°F)**Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)**

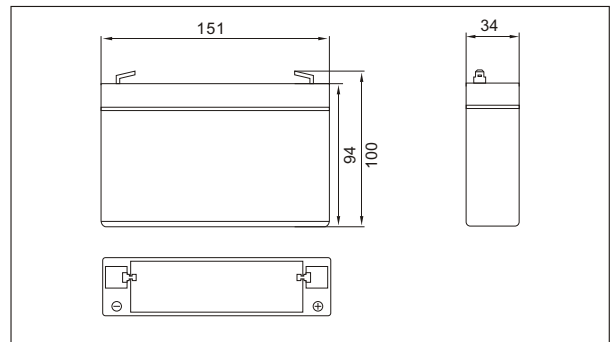
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	4.50	2.95	2.19	1.44	0.75	0.44	0.32	0.26	0.22	0.14	0.12	0.06
	W	53.1	33.3	25.2	15.3	8.6	5.1	3.72	2.99	2.54	1.67	1.37	0.75
10.20V	A	4.13	2.82	2.01	1.36	0.70	0.42	0.31	0.25	0.22	0.14	1.16	0.06
	W	49.9	31.6	23.7	15.2	8.1	4.9	3.62	2.90	2.49	1.65	1.34	0.73
10.50V	A	3.76	2.64	1.88	1.32	0.68	0.41	0.31	0.24	0.21	0.14	0.12	0.06
	W	48.2	30.6	22.7	15.0	7.9	4.8	3.56	2.75	2.47	1.63	1.33	0.72
10.80V	A	3.61	2.52	1.75	1.29	0.66	0.40	0.30	0.23	0.20	0.14	0.11	0.06
	W	42.3	29.7	21.8	14.9	7.7	4.7	3.52	2.72	2.36	1.56	1.30	0.71
11.10V	A	3.34	2.38	1.63	1.25	0.64	0.39	0.29	0.23	0.19	0.13	0.11	0.06
	W	40.9	28.7	20.8	14.8	7.6	4.6	3.41	2.71	2.31	1.51	1.28	0.70



SW670(6V7.0AH)



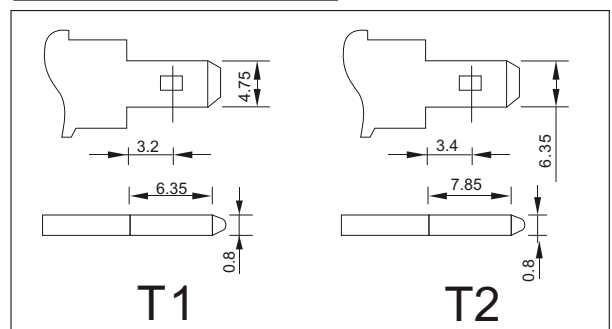
Outer dimensions (mm)



Specifications

Nominal Voltage		6 V
Rated capacity (20 hour rate)		7.0 Ah
Dimensions	Total Height	100 mm(3.94 inches)
	Height	94 mm(3.70 inches)
	Length	151 mm(5.94 inches)
	Width	34 mm(1.34 inches)
Weight Approx		1.05 Kg(2.35 lbs)

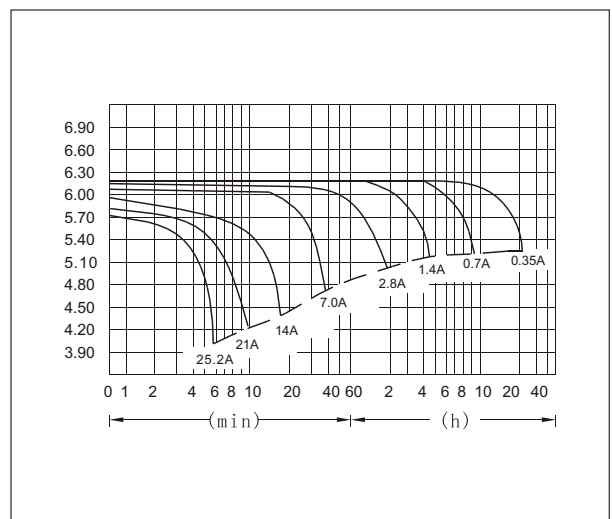
Terminal Type (mm)



Characteristics

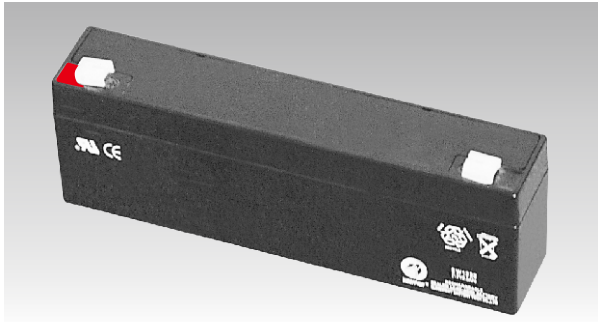
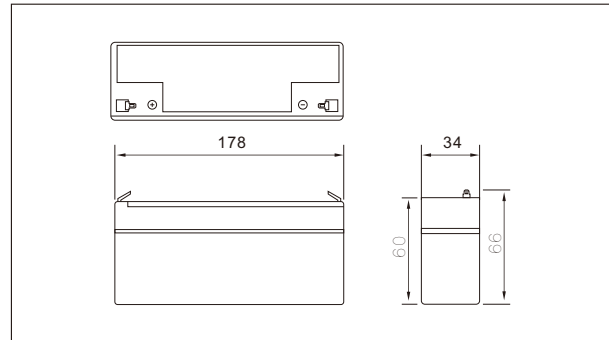
Capacity 25°C(77°F)	20 hour rate(0.35A)	7.00 AH
	10 hour rate(0.64A)	6.40 AH
	5 hour rate(1.20A)	6.00 AH
	1 hour rate(4.20A)	4.20 AH
1.5 hour discharge to 5.25 V		2.8 A
Internal Resistance Full charged Battery at 25°C(77°F)		16.5 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T1 or T2
Charge (constant Voltage)	Cycle	Initial Charging Current less than 2.80A Voltage 7.20-7.35 V
	Float	Voltage 6.75-6.90 V

Discharge Curves 25 °C(77°F)

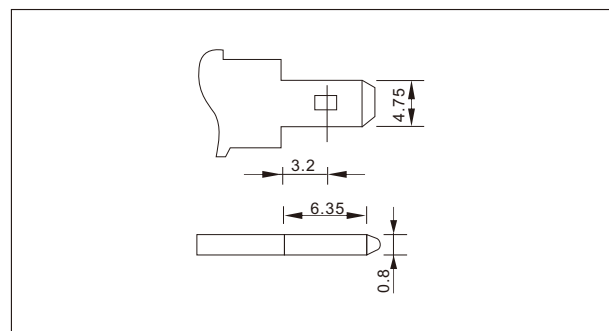


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 °C(77°F)

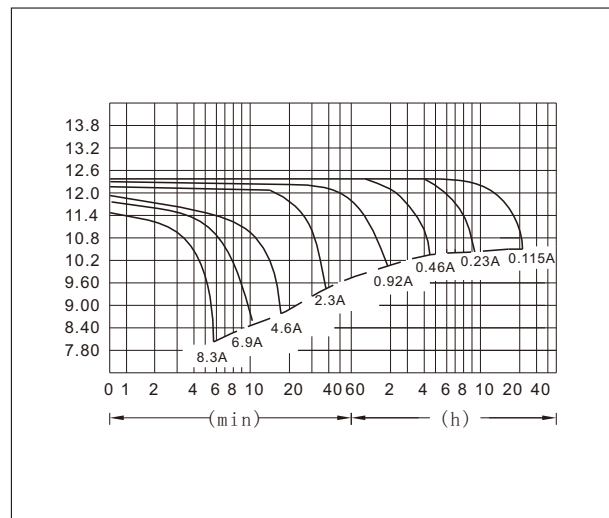
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
4.80V	A 25.2	15.8	12.3	8.05	4.20	2.45	1.80	1.45	1.23	0.81	0.66	0.36
	W 148.6	93.3	70.6	42.7	24.2	14.2	10.4	8.4	7.1	4.7	3.8	2.10
5.10V	A 23.1	15.5	11.3	7.64	3.94	2.35	1.75	1.40	1.20	0.80	0.65	0.35
	W 139.9	91.9	66.4	42.4	22.8	13.6	10.1	8.1	7.0	4.6	3.8	2.04
5.25V	A 21.4	14.8	10.5	7.41	3.82	2.30	1.72	1.33	1.20	0.79	0.64	0.35
	W 135.0	85.8	63.4	42.0	22.1	13.3	10.0	7.7	6.9	4.6	3.7	2.03
5.40V	A 19.5	14.1	9.8	7.07	3.69	2.25	1.69	1.31	1.14	0.77	0.63	0.34
	W 128.9	83.1	61.1	41.9	21.4	13.1	9.8	7.6	6.6	4.4	3.6	1.98
5.55V	A 16.9	13.3	9.1	6.58	3.56	2.19	1.60	1.28	1.09	0.75	0.61	0.33
	W 100.5	80.4	58.2	41.6	21.1	13.0	9.6	7.6	6.5	4.2	3.6	1.97

**SW1223(12V 2.3 AH)****● Outer dimensions (mm)****● Specifications**

Nominal Voltage		12V
Rated capacity (20 hour rate)		2.3 Ah
Dimensions	Total Height	66 mm (2.60 inches)
	Height	60 mm (2.36 inches)
	Length	178 mm (7.01 inches)
	Width	34 mm (1.34 inches)
Weight Approx		0.90 Kg (1.98 lbs)

● Terminal Type (mm)**● Characteristics**

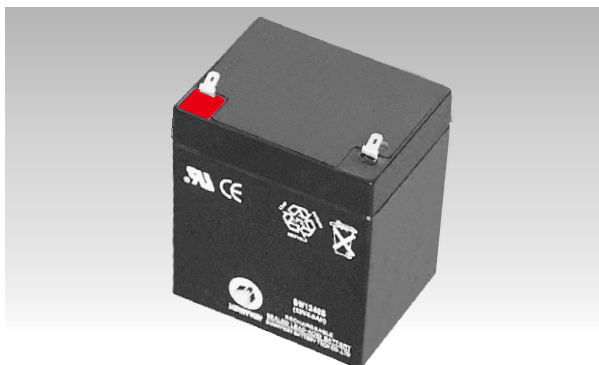
Capacity 25°C(77°F)	20 hour rate(0.115 A)	2.30 AH
	10 hour rate(0.21 A)	2.10 AH
	5 hour rate(0.39 A)	1.95 AH
	1 hour rate(1.38 A)	1.38 AH
	1.5 hour discharge to 10.5V	0.92 A
Internal Resistance	Full charged Battery at 25°C(77°F) 50 mΩ	
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal T0		
Charge (constant Voltage)	Cycle	Initial Charging Current less than 0.92 A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

● Discharge Curves 25°C(77°F)**Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)**

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A 8.28	5.43	4.03	2.65	1.38	0.81	0.59	0.48	0.40	0.27	0.22	0.120
	W 97.7	61.3	46.4	28.1	15.9	9.3	6.85	5.50	4.67	3.08	2.52	1.38
10.20V	A 7.59	5.19	3.70	2.51	1.30	0.77	0.58	0.46	0.40	0.26	0.21	0.120
	W 91.9	58.1	43.6	27.9	15.0	8.9	6.66	5.33	4.58	3.03	2.47	1.34
10.50V	A 6.91	4.85	3.45	2.43	1.25	0.76	0.57	0.44	0.39	0.26	0.21	0.115
	W 88.7	56.4	41.7	27.6	14.5	8.8	6.55	5.06	4.55	3.00	2.45	1.33
10.80V	A 6.64	4.64	3.22	2.37	1.21	0.74	0.56	0.43	0.37	0.25	0.21	0.113
	W 77.8	54.6	40.2	27.5	14.1	8.6	6.47	5.00	4.35	2.88	2.40	1.30
11.10V	A 6.14	4.37	2.99	2.30	1.17	0.72	0.53	0.42	0.36	0.25	0.20	0.111
	W 75.2	52.8	38.2	27.3	13.9	8.5	6.28	4.98	4.26	2.78	2.35	1.29



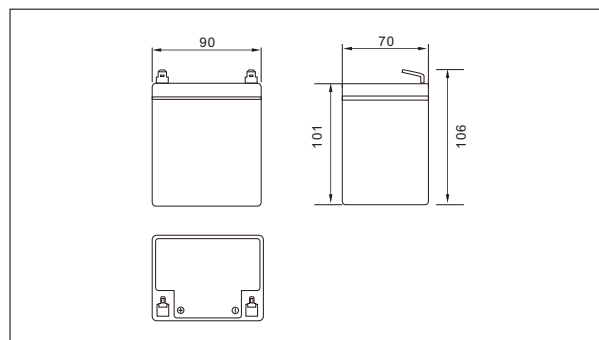
SW1245(12V4.5AH)



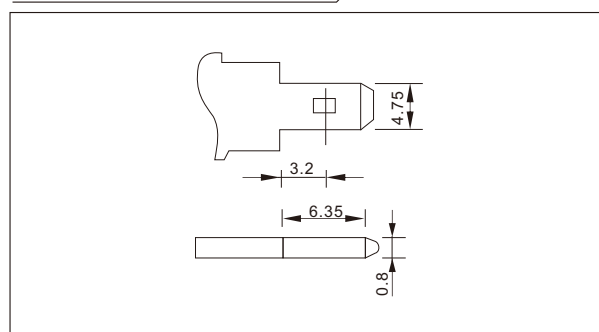
Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		4.5Ah
Dimensions	Total Height	106mm (4.17 inches)
	Height	101mm (3.98 inches)
	Length	90mm (3.54 inches)
	Width	70mm (2.76 inches)
Weight Approx		1.46Kg (3.22 lbs)

Outer dimensions (mm)



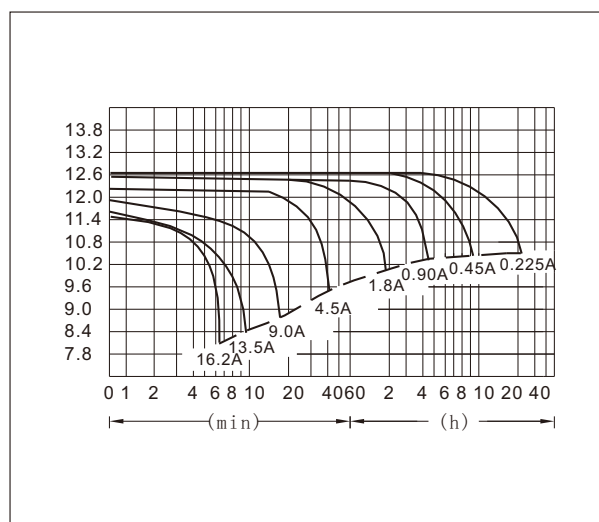
Terminal Type (mm)



Characteristics

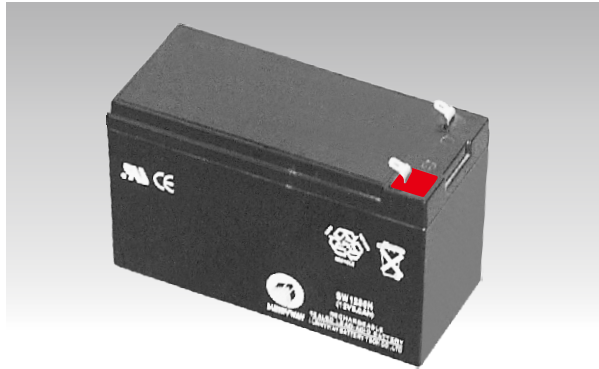
Capacity 25°C(77°F)	20 hour rate(0.225A)	4.50 AH
	10 hour rate(0.41 A)	4.10 AH
	5 hour rate(0.77 A)	3.85 AH
	1 hour rate(2.70 A)	2.70 AH
	1.5 hour discharge to 10.5V	1.8 A
Internal Resistance Full charged Battery at 25°C(77°F)		35 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T1、T2
Charge (constant Voltage)	Cycle	Initial Charging Current less than 1.80A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

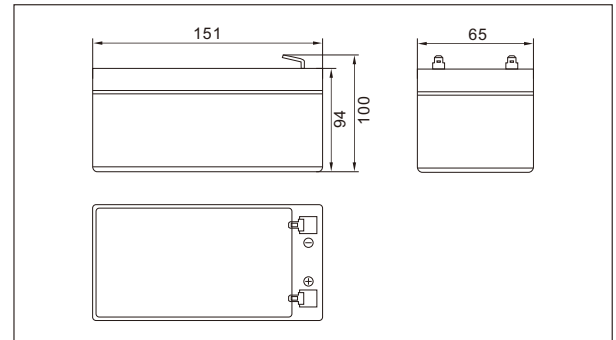
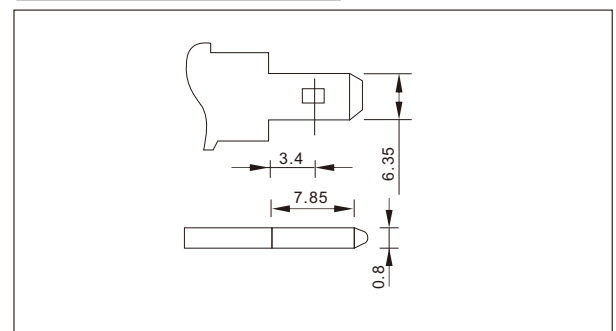
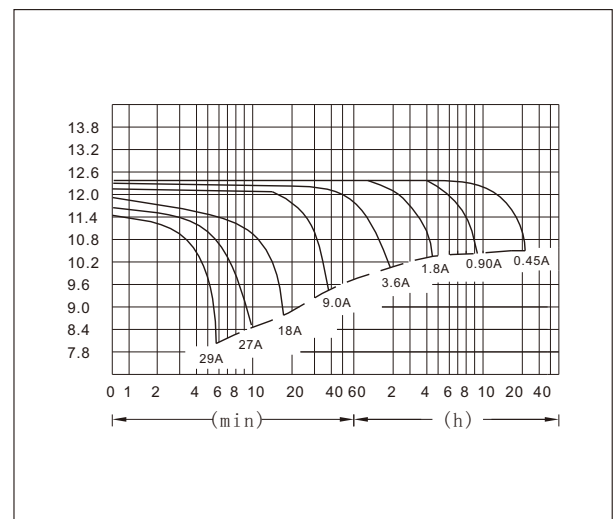
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	16.2	10.6	7.88	5.18	2.70	1.58	1.16	0.93	0.79	0.52	0.43	0.23
	W	191.1	120.0	90.8	54.9	31.1	18.2	13.41	10.76	9.13	6.02	4.93	2.70
10.20V	A	14.9	10.2	7.24	4.91	2.53	1.51	1.13	0.90	0.77	0.51	0.42	0.23
	W	179.8	113.6	85.3	54.6	29.3	17.5	13.03	10.43	8.96	5.93	4.84	2.62
10.50V	A	13.5	9.50	6.75	4.76	2.45	1.48	1.11	0.86	0.77	0.51	0.41	0.22
	W	173.6	110.3	81.6	54.0	28.4	17.2	12.81	9.90	8.91	5.87	4.80	2.61
10.80V	A	13.0	9.08	6.30	4.63	2.37	1.44	1.09	0.84	0.73	0.49	0.40	0.22
	W	152.2	106.9	78.6	53.8	27.6	16.8	12.66	9.78	8.51	5.63	4.69	2.55
11.10V	A	12.0	8.55	5.85	4.50	2.29	1.41	1.03	0.82	0.70	0.48	0.39	0.21
	W	147.2	103.3	74.8	53.4	27.2	16.7	12.28	9.75	8.33	5.44	4.59	2.53

**SW1290(12V9.0AH)****Specifications**

Nominal Voltage		12V
Rated capacity (20 hour rate)		9.0 Ah
Dimensions	Total Height	100mm (3.94 inches)
	Height	94mm (3.70 inches)
	Length	151mm (5.94 inches)
	Width	65mm (2.56 inches)
Weight Approx		2.4Kg (5.29 lbs)

Characteristics

Capacity 25°C(77°F)	20 hour rate(0.45 A)	9.00 AH
	10 hour rate(0.83A)	8.30AH
	5 hour rate(1.53 A)	7.65 AH
	1 hour rate(5.40 A)	5.40 AH
	1.5 hour discharge to 10.5V	3.6 A
Internal Resistance Full charged Battery at 25°C(77°F)		18 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T2
Charge (constant Voltage)	Cycle	Initial Charging Current less than 3.60A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

Outer dimensions (mm)**Terminal Type (mm)****Discharge Curves 25°C(77°F)****Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)**

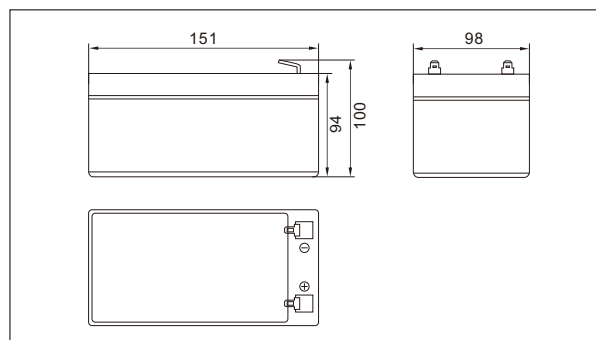
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	32.4	21.2	15.8	10.35	5.40	3.15	2.32	1.86	1.58	1.04	0.85	0.47
	W	382.1	240.0	181.5	109.9	62.3	36.5	26.81	21.53	18.26	12.04	9.86	5.40
10.20V	A	29.7	20.3	14.5	9.83	5.07	3.02	2.25	1.80	1.55	1.02	0.836	0.45
	W	359.6	227.3	170.6	109.1	58.5	35.0	26.06	20.85	17.93	11.85	9.68	5.25
10.50V	A	27.0	19.0	13.5	9.52	4.91	2.96	2.21	1.71	1.54	1.01	0.83	0.45
	W	347.2	220.5	163.1	108.0	56.8	34.3	25.61	19.80	17.81	11.74	9.60	5.21
10.80V	A	26.0	18.2	12.60	9.26	4.74	2.89	2.18	1.68	1.46	0.99	0.81	0.44
	W	304.5	213.8	157.1	107.6	55.1	33.6	25.31	19.56	17.03	11.25	9.38	5.10
11.10V	A	24.0	17.1	11.70	9.00	4.57	2.81	2.06	1.65	1.40	0.96	0.79	0.43
	W	294.4	206.6	149.6	106.9	54.4	33.4	24.56	19.50	16.65	10.87	9.19	5.06



SW12120(12V12AH)



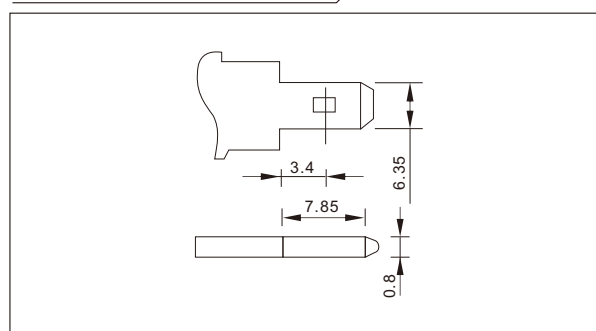
Outer dimensions (mm)



Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		12Ah
Dimensions	Total Height	100 mm (3.94 inches)
	Height	94 mm (3.70 inches)
	Length	151 mm (5.94 inches)
	Width	98 mm (3.86 inches)
Weight Approx		3.6 Kg (7.93 lbs)

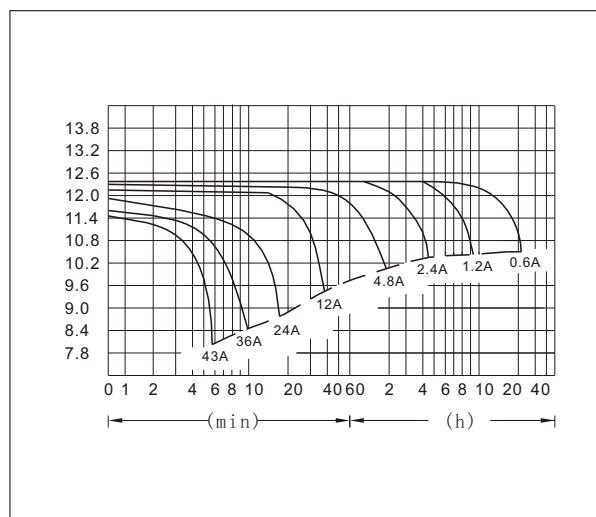
Terminal Type (mm)



Characteristics

Capacity 25°C(77°F)	20 hour rate(0.60 A)	12 AH
	10 hour rate(1.10 A)	11.0 AH
	5 hour rate(2.04 A)	10.2 AH
	1 hour rate(7.20 A)	7.20 AH
1.5 hour discharge to 10.5V		4.8 A
Internal Resistance Full charged Battery at 25°C(77°F)		13 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T2, T3
Charge (constant Voltage)	Cycle	Initial Charging Current less than 4.80A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

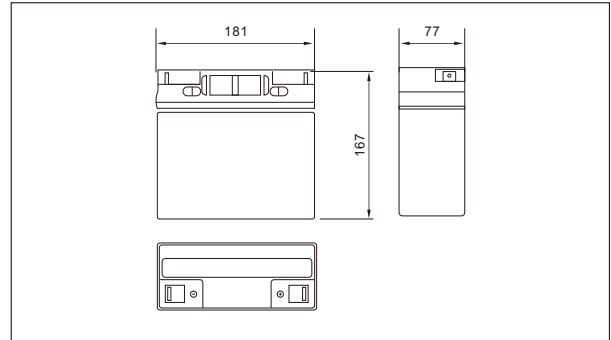
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A 43.2	28.3	21.0	13.8	7.20	4.20	3.09	2.48	2.11	1.39	1.13	0.62
	W 509.5	320.0	242.0	146.5	83.0	48.6	35.75	28.70	24.35	16.05	13.15	7.20
10.20V	A 39.6	27.1	19.3	13.1	6.76	4.03	3.00	2.40	2.06	1.37	1.12	0.61
	W 479.5	303.0	227.5	145.5	78.0	46.7	34.75	27.80	23.90	15.80	12.90	7.00
10.50V	A 36.1	25.3	18.0	12.7	6.54	3.95	2.95	2.28	2.04	1.35	1.10	0.60
	W 463.0	294.0	217.5	144.0	75.7	45.8	34.15	26.40	23.75	15.65	12.80	6.95
10.80V	A 34.6	24.2	16.8	12.4	6.32	3.85	2.90	2.24	1.95	1.31	1.07	0.59
	W 406.0	285.0	209.5	143.5	73.5	44.8	33.75	26.08	22.70	15.00	12.50	6.80
11.10V	A 32.0	22.8	15.6	12.0	6.10	3.75	2.75	2.20	1.87	1.28	1.05	0.57
	W 392.5	275.5	199.5	142.5	72.5	44.5	32.75	26.00	22.20	14.50	12.25	6.75



SW12180(12V18AH)



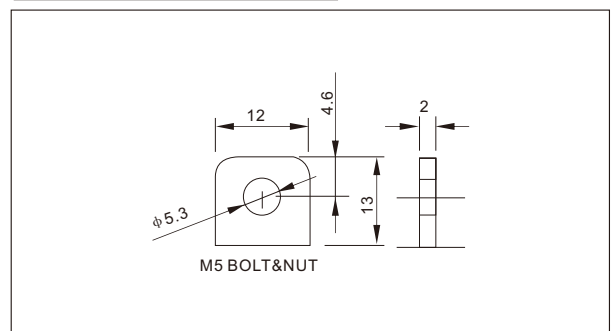
Outer dimensions (mm)



Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		18Ah
Dimensions	Total Height	167 mm (6.57 inches)
	Height	167 mm (6.57 inches)
	Length	181 mm (7.13 inches)
	Width	77 mm (3.03 inches)
Weight Approx		5.30 Kg (11.67 lbs)

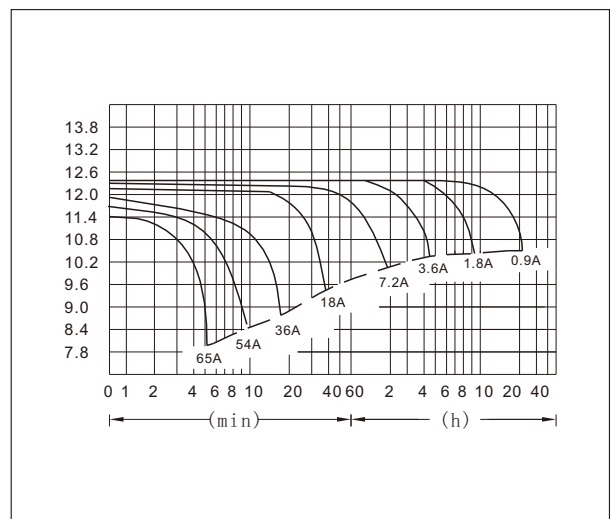
Terminal Type (mm)



Characteristics

Capacity 25°C(77°F)	20 hour rate(0.9 A)	18.0 AH
	10 hour rate(1.66 A)	16.6 AH
	5 hour rate(3.06A)	15.3AH
	1 hour rate(10.8 A)	10.8 AH
	1.5 hour discharge to 10.5V	6.8 A
Internal Resistance Full charged Battery at 25°C(77°F)		14 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T3、T13
Charge (constant Voltage)	Cycle	Initial Charging Current less than 4.80A Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V

Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A 64.8	42.5	31.5	20.7	10.80	6.30	4.64	3.72	3.16	2.08	1.70	0.93
	W 764.2	480.0	363.0	219.7	124.5	72.9	53.63	43.05	36.53	24.08	19.72	10.80
10.20V	A 59.4	40.6	28.9	19.7	10.14	6.04	4.50	3.60	3.10	2.05	1.67	0.91
	W 719.2	454.5	341.2	218.3	117.0	70.0	52.12	41.70	35.85	23.70	19.35	10.50
10.50V	A 54.1	38.0	27.0	19.0	9.81	5.93	4.42	3.42	3.06	2.03	1.66	0.90
	W 694.5	441.0	326.3	216.0	113.5	68.6	51.22	39.60	35.63	23.48	19.20	10.43
10.80V	A 52.0	36.3	25.2	18.5	9.48	5.77	4.35	3.36	2.93	1.97	1.61	0.88
	W 609.0	427.5	314.2	215.2	110.3	67.2	50.63	39.11	34.05	22.50	18.75	10.20
11.10V	A 48.1	34.2	23.4	18.0	9.15	5.63	4.13	3.30	2.80	1.92	1.58	0.86
	W 588.7	413.2	299.3	213.8	108.8	66.7	49.13	39.00	33.30	21.75	18.37	10.13



SW1270(12V7.0AH)



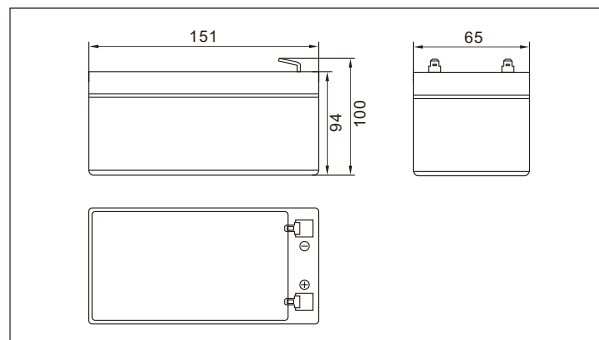
Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		7.0Ah
Dimensions	Total Height	100mm (3.94 inches)
	Height	94mm (3.70 inches)
	Length	151mm (5.94 inches)
	Width	65mm (2.56 inches)
Weight Approx		2.30Kg (5.07 lbs)

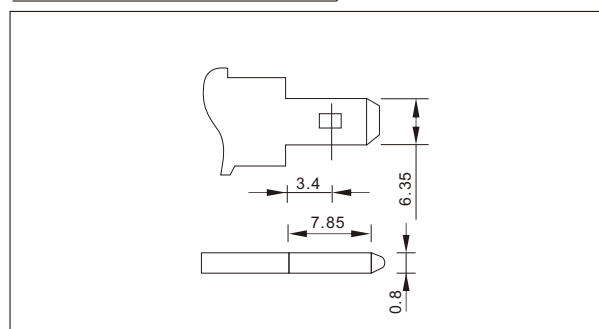
Characteristics

Capacity 25°C(77°F)	20 hour rate(0.35 A)	7.00 AH
	10 hour rate(0.64 A)	6.40 AH
	5 hour rate(1.20 A)	6.00AH
	1 hour rate(4.20 A)	4.20 AH
	1.5 hour discharge to 10.5V	2.8 A
Internal Resistance Full charged Battery at 25°C(77°F)		25 mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
	Capacity after 3 month storage	91%
Self-Discharge at 25°C(77°F)	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal		T1、T2
Charge (constant Voltage)	Cycle	Initial Charging Current less than 2.80A Voltage 14.40-15.00V
	Float	Voltage 13.50-13.80V

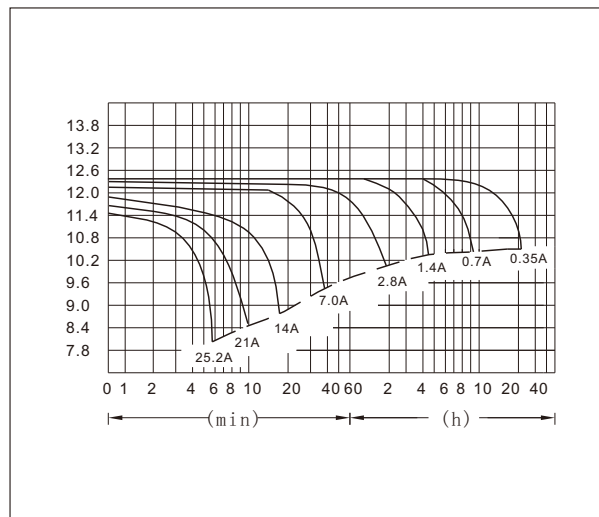
Outer dimensions (mm)



Terminal Type (mm)



Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	25.2	16.5	12.3	8.05	4.20	2.45	1.80	1.45	1.23	0.81	0.66	0.36
	W	297.2	186.7	141.2	85.5	48.4	28.4	20.85	16.74	14.20	9.36	7.67	4.20
10.20V	A	23.1	15.8	11.3	7.64	3.94	2.35	1.75	1.40	1.20	0.80	0.65	0.35
	W	279.7	176.8	132.7	84.9	45.5	27.2	20.27	16.22	13.94	9.22	7.53	4.08
10.50V	A	21.0	14.8	10.5	7.41	3.82	2.30	1.72	1.33	1.20	0.79	0.64	0.35
	W	270.1	171.5	126.9	84.0	44.2	26.7	19.92	15.40	13.85	9.13	7.47	4.05
10.80V	A	20.2	14.1	9.80	7.20	3.69	2.25	1.69	1.31	1.14	0.77	0.63	0.35
	W	236.8	166.3	122.2	83.7	42.9	26.1	19.69	15.21	13.24	8.75	7.29	3.97
11.10V	A	18.7	13.3	9.10	7.00	3.56	2.19	1.60	1.28	1.09	0.75	0.61	0.33
	W	229.0	160.7	116.4	83.1	42.3	26.0	19.10	15.17	12.95	8.46	7.15	3.94



SW6100(6V10AH)



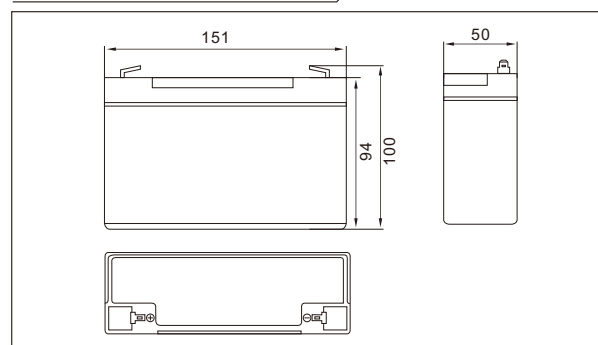
Specifications

Nominal Voltage		6 V
Rated capacity (20 hour rate)		10 Ah
Dimensions	Total Height	100mm(3.94 inches)
	Height	94 mm(3.70 inches)
	Length	151 mm(5.94 inches)
	Width	50 mm(1.97 inches)
Weight Approx		1.55 Kg(3.42 lbs)

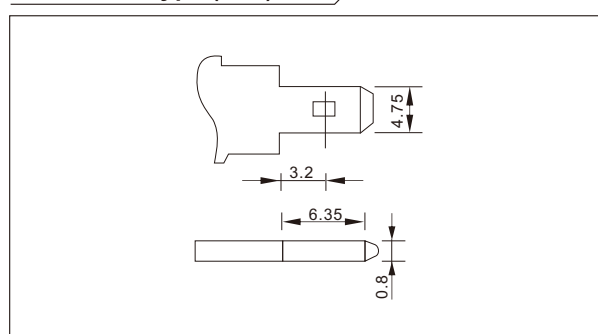
Characteristics

Capacity 25℃(77℉)		20 hour rate(0.50A)	10.0 AH
		10 hour rate(0.92A)	9.20 AH
		5 hour rate(1.70A)	8.50 AH
		1 hour rate(6.00A)	6.00 AH
		1.5 hour discharge to 5.25 V	4.0 A
Internal Resistance		Full charged Battery at 25℃(77℉)	10 m Ω
Capacity affected by Temperature (20hour rate)		40℃(104℉)	102% AH
		25℃(77℉)	100% AH
		0℃(32℉)	85% AH
		-15℃(5℉)	65% AH
Self-Discharge at 25℃(77℉)		Capacity after 3 month storage	91% AH
		Capacity after 6 month storage	82% AH
		Capacity after 12 month storage	64% AH
Terminal		T1、T2	
Charge (constant Voltage)	Cycle	Initial Charging Current less than 4.0 A Voltage 7.05-7.20 V	
	Float	Voltage 6.75-6.90 V	

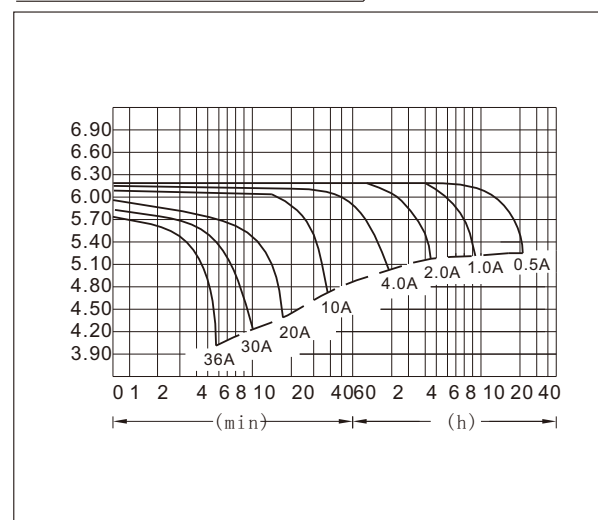
Outer dimensions (mm)



Terminal Type (mm)



Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
4.80V	A 36.0	22.6	17.5	11.5	6.00	3.50	2.58	2.07	1.75	1.16	0.95	0.52
	W 212.3	133.3	100.8	61.0	34.6	20.3	14.9	12.0	10.1	6.7	5.5	3.00
5.10V	A 33.0	22.1	16.1	10.9	5.63	3.36	2.50	2.00	1.72	1.14	0.93	0.50
	W 199.8	131.3	94.8	60.6	32.5	19.4	14.5	11.6	10.0	6.6	5.4	2.92
5.25V	A 30.6	21.1	15.0	10.6	5.45	3.29	2.46	1.90	1.70	1.13	0.92	0.50
	W 192.9	122.5	90.6	60.0	31.5	19.1	14.2	11.0	9.9	6.5	5.3	2.90
5.40V	A 27.9	20.2	14.0	10.1	5.27	3.21	2.42	1.87	1.63	1.10	0.90	0.49
	W 184.2	118.8	87.3	59.8	30.6	18.7	14.1	10.9	9.5	6.3	5.2	2.83
5.55V	A 24.1	19.0	13.0	9.40	5.08	3.13	2.29	1.83	1.55	1.07	0.88	0.48
	W 143.5	114.8	83.1	59.4	30.2	18.5	13.6	10.8	9.3	6.0	5.1	2.81