

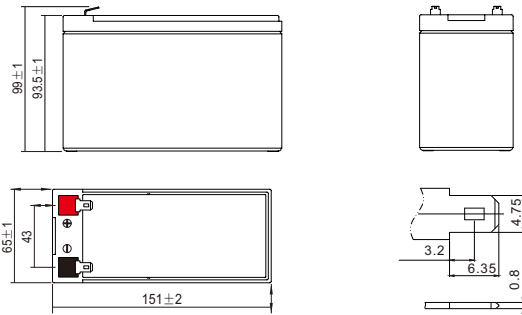


Applications

- ◆ Network connection equipment of communication system
- ◆ Power system of special network or local area network
- ◆ UPS, standby power supply Power station systems
- ◆ Railway and marine systems

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	7.0 Ah	
Dimension	Length	151mm (5.94 in.)
	Width	65mm (2.56 in.)
	Container Height	93.5mm (3.68 in.)
	Total Height (with Terminal)	99mm (3.90 in.)
Approx Weight	2.26 Kg (4.98 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	C20(0.350A, 1.80V/cell)	7.00 Ah
	C10(0.653A, 1.80V/cell)	6.53 Ah
	C5(1.160A, 1.75V/cell)	5.80 Ah
	C3(1.710A, 1.75V/cell)	5.13 Ah
	C1(4.170A, 1.67V/cell)	4.17 Ah
Max. Discharge Current	105A (5s)	
Internal Resistance	Approx 25.0mΩ	
Operating Temp. Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-15°C~50°C (5°F~122°F)
Nominal Operating Temp. Range	25°C±3°C (77°F±5°F)	
Standby Use (25°C)	Charging Current	≤2.1A
	Charging Voltage	13.6V~13.8V
	Temp. Coefficient	-3mV/cell/°C
Capacity affected by Temperature	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C	



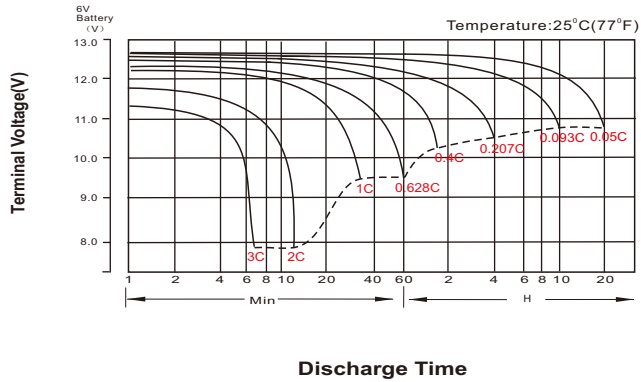
Constant Current Discharge (Amperes) at 25 °C (77°F)

F. V./Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.69	2.14	1.60	1.30	1.10	0.95	0.76	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.83	2.24	1.66	1.35	1.14	0.99	0.78	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.93	2.31	1.71	1.38	1.16	1.01	0.80	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.98	2.36	1.75	1.41	1.19	1.03	0.81	0.672	0.361
1.67V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	3.06	2.40	1.77	1.43	1.21	1.04	0.82	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	3.11	2.46	1.81	1.46	1.23	1.06	0.84	0.690	0.371

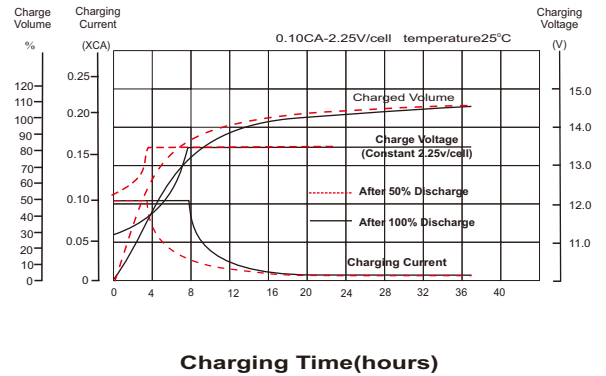
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F. V./Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	5.30	4.23	3.17	2.59	2.20	1.91	1.52	1.260	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	5.56	4.42	3.30	2.69	2.27	1.97	1.57	1.310	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	5.74	4.55	3.37	2.74	2.31	2.00	1.59	1.330	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	5.79	4.61	3.42	2.78	2.34	2.03	1.61	1.330	0.718
1.67V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	5.88	4.65	3.45	2.80	2.36	2.05	1.62	1.340	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	5.93	4.73	3.50	2.83	2.39	2.07	1.63	1.350	0.728

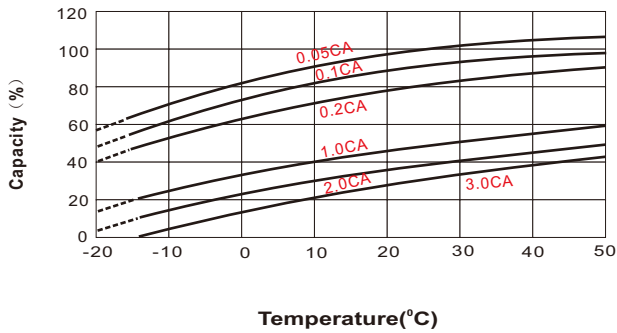
Discharge Characteristics



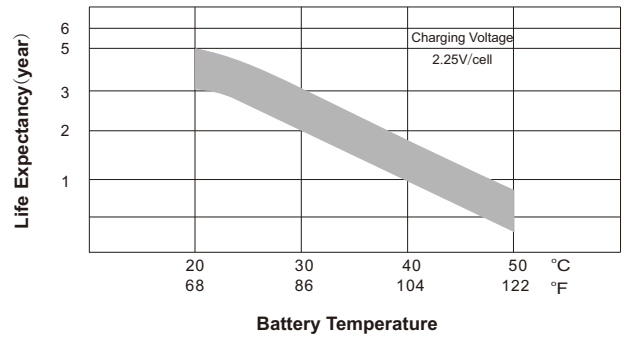
Float Charging Characteristics



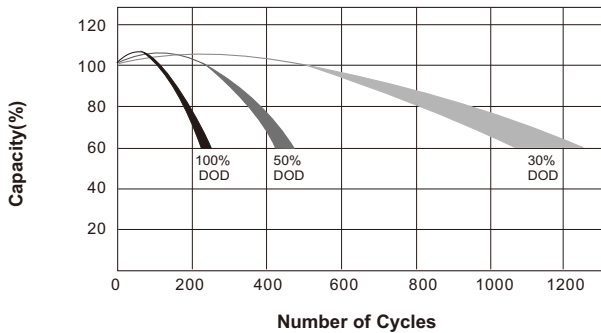
Temperature Effects in Relation to Battery Capacity



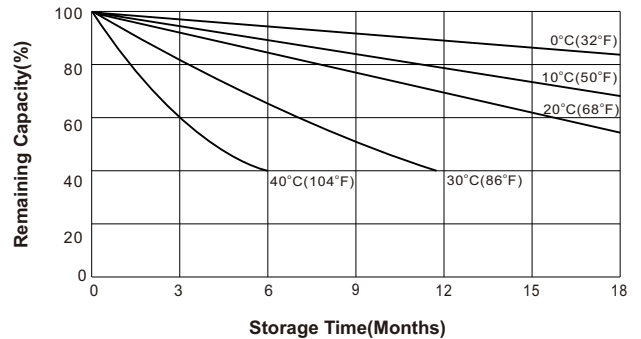
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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