

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	9Ah
	10HR(10.5V)	8.4Ah
	1HR(9.60V)	5.8Ah
Dimension	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.94inch)
Approx. Weight		2.4kg (5.73lbs)±5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 19mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		2.7A
Terminal material		Copper
Maximum discharge current		135A(5 sec.)

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	35.5	23.15	17.08	9.89	5.71	3.37	2.45	1.95	1.65	0.9	0.46
1.65V	34.22	22.47	16.64	9.67	5.61	3.32	2.42	1.93	1.63	0.89	0.46
1.70V	32.56	21.56	16.05	9.38	5.47	3.26	2.37	1.89	1.6	0.88	0.46
1.75V	30.41	20.39	15.28	9.01	5.28	3.17	2.32	1.85	1.57	0.86	0.45
1.80V	27.71	18.9	14.3	8.52	5.04	3.05	2.24	1.8	1.52	0.84	0.44

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	61.11	39.95	30.31	18.23	10.85	6.49	4.75	3.8	3.22	1.79	0.94
1.65V	60.47	39.79	30.14	18.09	10.76	6.44	4.72	3.77	3.2	1.77	0.93
1.70V	58.16	38.62	29.32	17.65	10.52	6.33	4.65	3.72	3.15	1.75	0.92
1.75V	55.31	37.17	28.33	17.12	10.22	6.19	4.55	3.65	3.1	1.72	0.91
1.80V	51.27	35.04	26.88	16.36	9.8	5.99	4.42	3.55	3.02	1.69	0.89

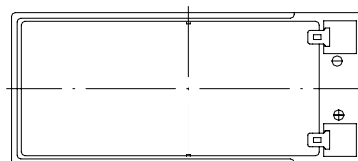
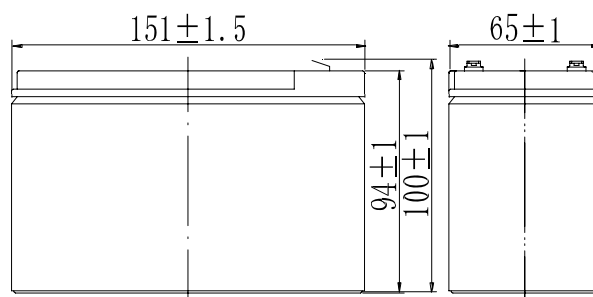
Note: The above characteristics data can be obtained within three charge/discharge cycles.

12V
Voltage

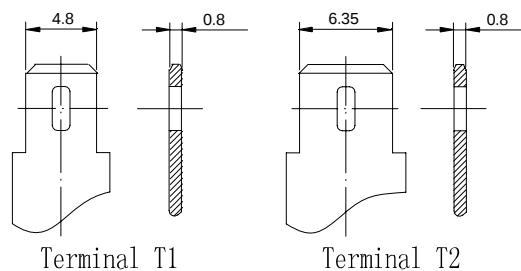
9Ah
Capacity



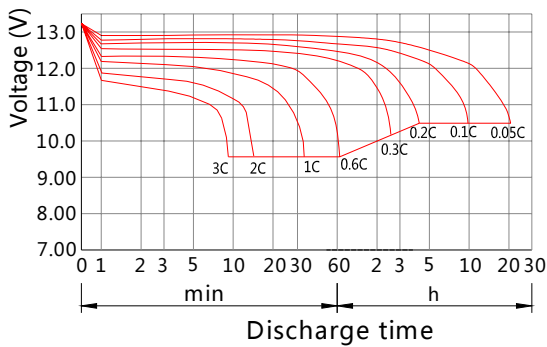
Dimensions



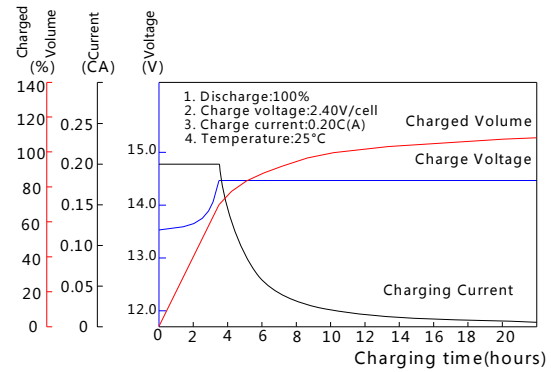
Terminal



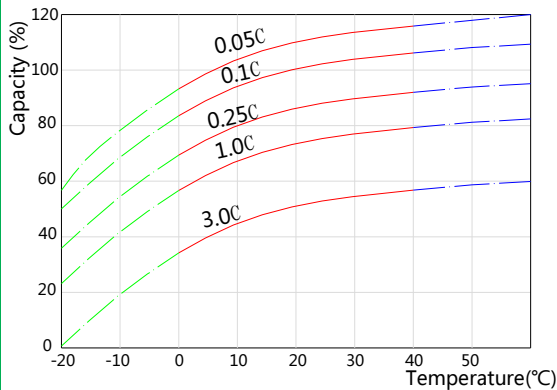
Discharge Characteristics(25°C)



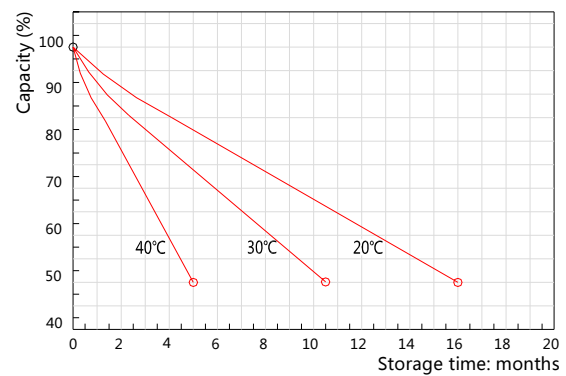
Charging Characteristics(25°C)



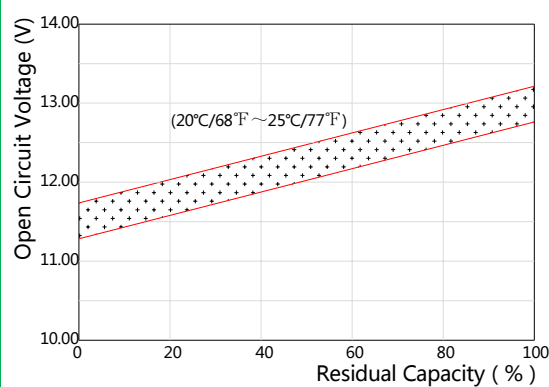
Effect of Temperature on Capacity



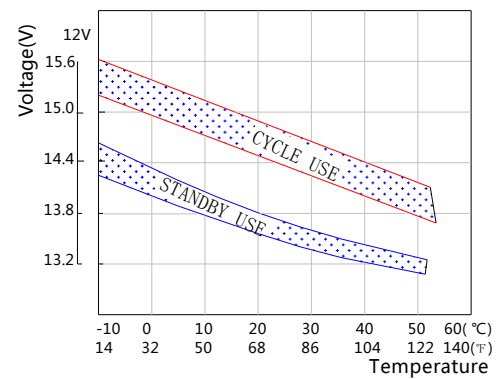
Self-discharge Characteristics



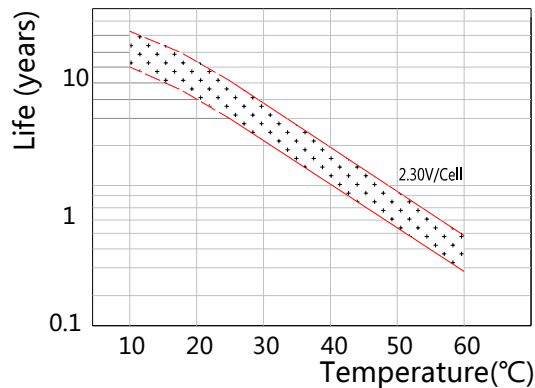
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

