

Specifications

Nominal Voltage		12 V
Capacity (25℃)	20HR(10.5V)	1.2Ah
	120HR(11.1V)	1.12Ah
	1HR(9.60V)	0.78Ah
Dimension	Length	97±1mm (3.82inch)
	Width	43±1mm (1.69inch)
	Height	52±1mm (2.05inch)
	Total Height	58±1mm (2.28inch)
Approx. Weight		0.52kg (1.14lbs)±4%
Terminal type & material		T1,Copper
Internal resistance (Fully charged, 25℃)		Approx. 95mΩ
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77°F±5°F)
Operating temperature range	Discharge	-15℃~50℃(5°F~122°F)
	Charge	-10℃~50℃(14°F~122°F)
	Storage	-20℃~50℃(-4°F~122°F)
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 14.90V Temperature compensation: -30mV/℃
Maximum charging current		0.36A
Maximum discharge current		18A(5 sec.)
Designed floating life(20℃)		10years
Designed cycle life(25℃)		320 cycles@80% DOD

- ◆ Absorbent glass mat technology;
- ◆ ABS container, Recognized by UL & CE;
- ◆ Designed both for deep cycle use&floating charge use;
- ◆ 10 Years long life designed floating life.

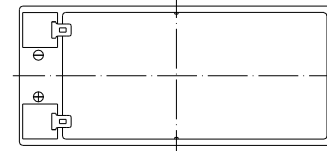
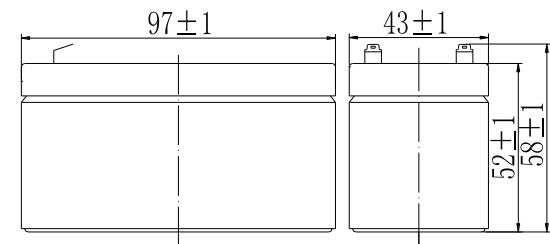
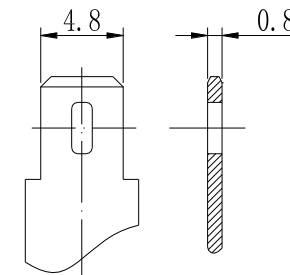
Constant Current Discharge Characteristics (A, 25℃)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	4.57	2.88	2.28	1.27	0.78	0.43	0.306	0.245	0.208	0.113	0.061
9.90V	4.43	2.79	2.23	1.25	0.77	0.42	0.304	0.243	0.207	0.113	0.061
10.2V	4.24	2.68	2.14	1.21	0.75	0.42	0.302	0.242	0.205	0.112	0.060
10.5V	4.05	2.56	2.07	1.18	0.73	0.41	0.300	0.240	0.204	0.112	0.060
10.8V	3.82	2.42	1.96	1.14	0.71	0.40	0.291	0.233	0.198	0.109	0.059

Constant Power Discharge Characteristics (Watt, 25℃)

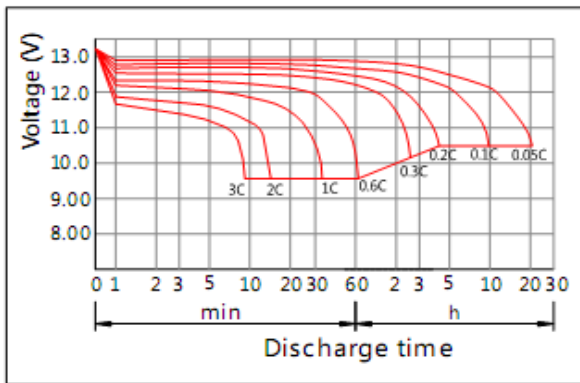
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	51.0	32.5	26.0	14.6	9.0	4.99	3.64	2.92	2.48	1.36	0.73
9.90V	49.5	31.5	25.4	14.3	8.9	4.96	3.61	2.90	2.47	1.35	0.73
10.2V	47.2	30.2	24.4	13.8	8.7	4.91	3.59	2.88	2.45	1.35	0.72
10.5V	45.4	28.9	23.6	13.5	8.5	4.84	3.56	2.86	2.44	1.34	0.72
10.8V	42.7	27.3	22.4	13.0	8.2	4.72	3.46	2.77	2.36	1.31	0.71

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

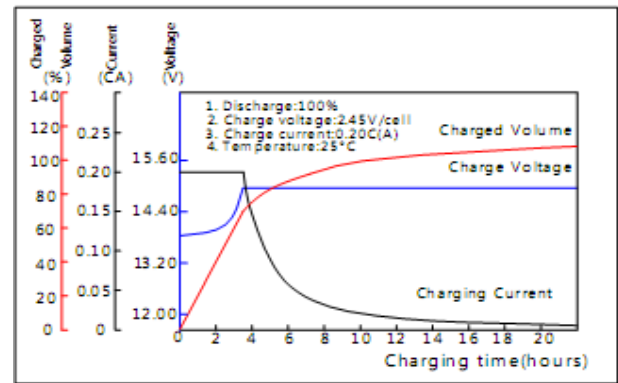
**Dimensions****Terminal**

Terminal T1

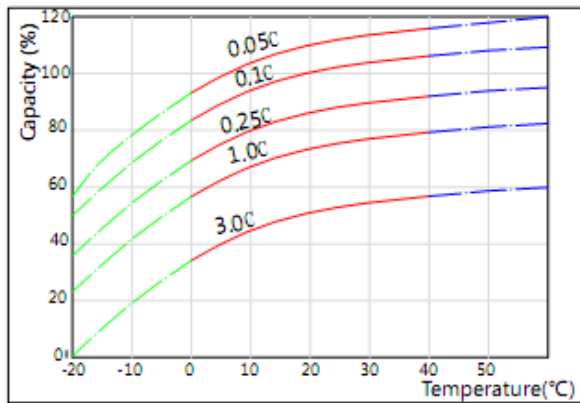
Discharge Characteristics(25°C)



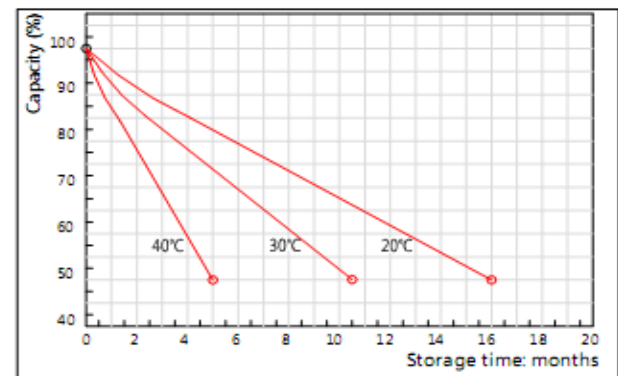
CharginCharacteristics(25°C)



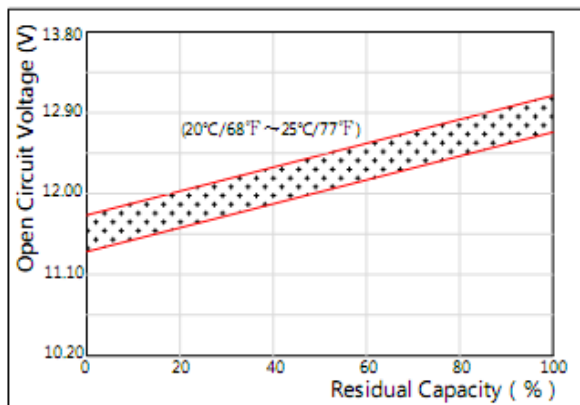
Effect of Temperature on Capacity



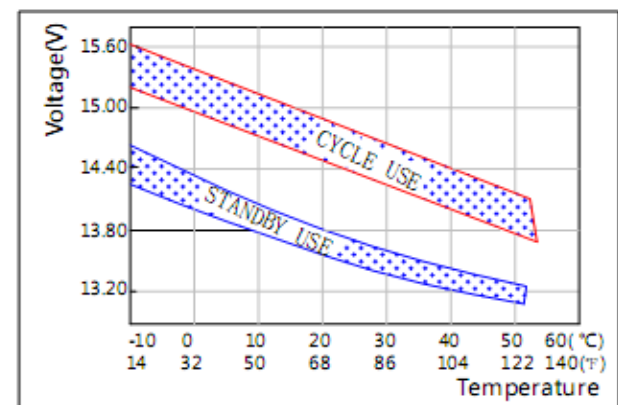
Self-discharge Characteristics



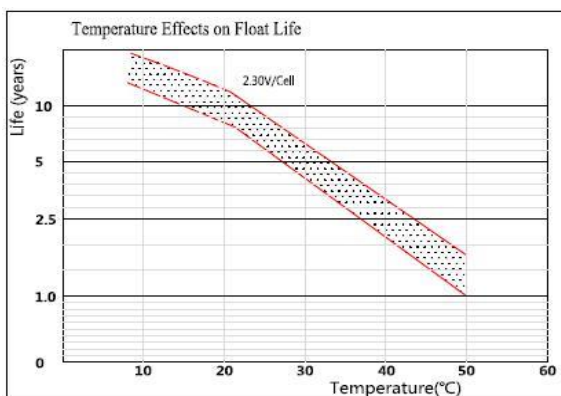
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Typical Use life and Operating Temperature



Cycle Life on D.O.D(25°C)

