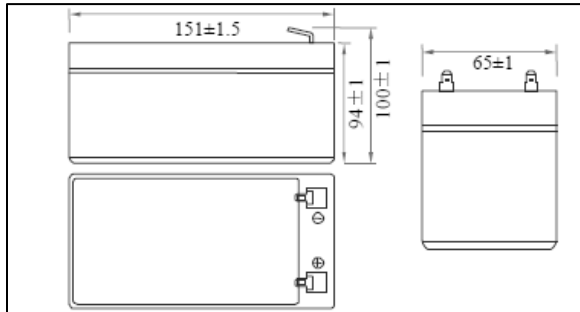


### Specifications

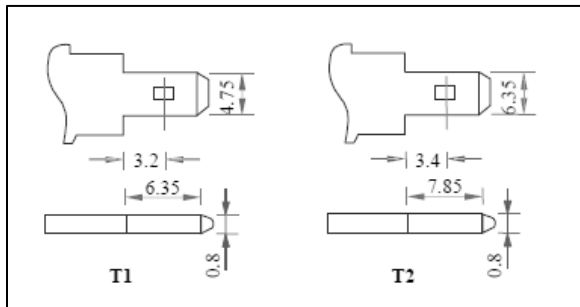
Nominal Voltage	12V
Rated Capacity (20-hour rate)	5.4Ah
Dimensions	
Length	151±1.5mm (5.94inch)
Width	65±1mm (2.56inch)
Height	94±1mm (3.70inch)
Total Height	100±1mm (3.94inch)
Approximate Weight	1.73kg (3.81lbs)±4%



### Outer Dimensions



### Terminal Type



### Characteristics

Capacity (25°C)	
20HR (10.5V)	5.4Ah
10HR (10.5V)	5.0Ah
1HR (9.60V)	3.2Ah
Terminal Type	F2
Internal Resistance	Approx. 27m Ω
Capacity affected by temperature (20HR)	
40°C	102%
25°C	100%
0°C	85%
-15°C	65%
Self-Discharge (25°C)	
3 months	Remaining Capacity: 91%
6 months	Remaining Capacity: 82%
12 months	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 15.00V Temperature compensation: -30mV/°C
Maximum charging current	1.65A
Maximum discharge current	82.5A (5 sec.)
Designed Floating Life (20°C)	5 years

### Construction

Component	Positive Plate	Negative Plate	Container	Cover	Separator	Electrolyte	Safety Valve	Terminal
Raw Material	Lead Dioxide	Lead	ABS	ABS	AGM	Sulfuric Acid	Rubber	Copper

### Constant Current Discharge Characteristics

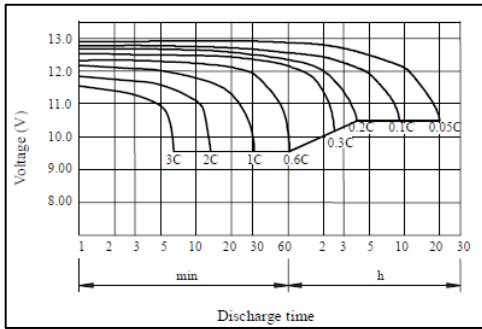
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	21.0	13.3	10.4	5.86	3.60	1.97	1.37	1.13	0.96	0.52	0.28
9.90V	20.4	12.9	10.2	5.74	3.55	1.96	1.35	1.12	0.95	0.52	0.28
10.2V	19.6	12.4	9.74	5.56	3.46	1.94	1.34	1.12	0.95	0.52	0.28
10.5V	18.7	11.9	9.43	5.43	3.39	1.91	1.34	1.11	0.94	0.51	0.28
10.8V	17.7	11.2	8.96	5.23	3.28	1.86	1.30	1.07	0.91	0.50	0.27

### Constant Power Discharge Characteristics

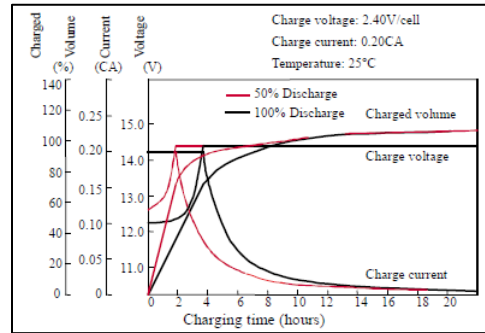
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	235	150	119	67.1	41.7	23.1	16.2	13.5	11.5	6.25	3.35
9.90V	227	146	116	65.8	41.1	22.9	16.1	13.4	11.4	6.22	3.34
10.2V	219	140	112	63.8	40.1	22.7	16.0	13.3	11.3	6.19	3.32
10.5V	209	134	108	62.3	39.3	22.4	15.9	13.2	11.2	6.16	3.30
10.8V	198	127	102	60.0	38.1	21.9	15.4	12.8	10.9	6.03	3.24

\*Note: The above characteristics data can be obtained within three charge or discharge cycles.

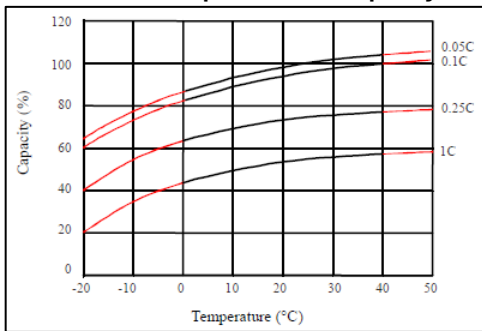
### Discharge Characteristics



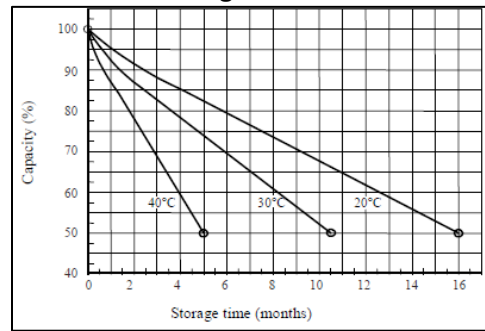
### Charging Characteristics



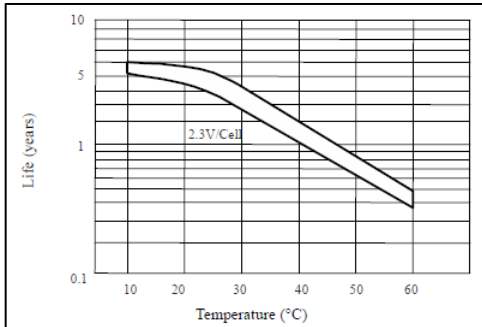
### Effect of Temperature on Capacity



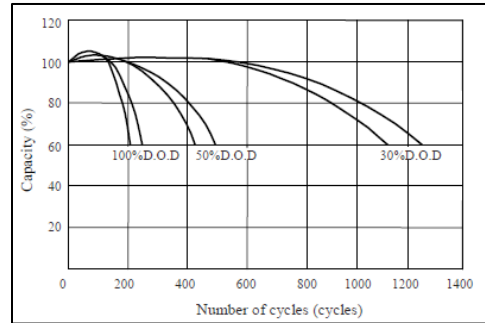
### Self-discharge Characteristics



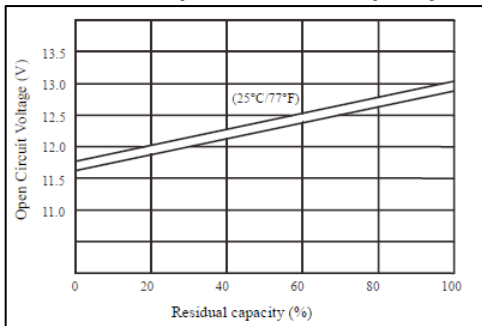
### Floating Life on Temperature



### Cycle Life on D.O.D



### Relationship for OCV and Capacity



### Relationship for Charging voltage and Temperature

