

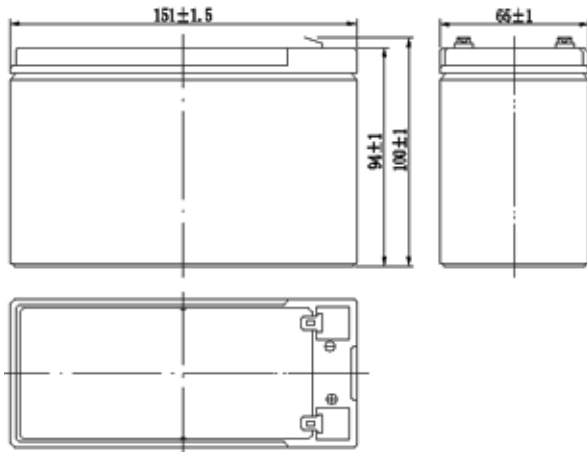
## Battery 12V 9AH High Rated

### Specifications

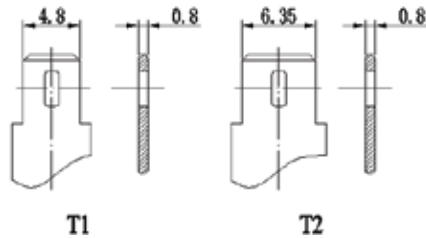
Nominal Voltage		12 V
Number of cell		6 cells
Rated capacity(15min.rate)		36 Watts/cell
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 1mm (3.70inch)
	Total Height	100 ± 1mm (3.94inch)
Approx. Weight		2.65kg (5.84lbs) ± 4%



### Dimensions



### Terminal



### Characteristics

Capacity(20HR, 25°C)		9 Ah
Capacity(15min.rate, 25°C)		36 Watts/cell
Terminal type		T2/T1
Internal resistance (Fully charged, 25°C)		Approx. 14m Ω
Capacity affected by temperature (10HR)	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)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		2.7A
Terminal material		Copper
Maximum discharge current		135A(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 (A, 25°C)

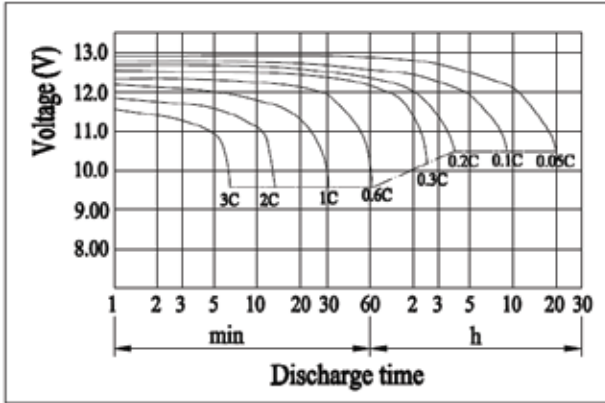
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	36.8	22.7	17.8	14.1	9.55	7.07	5.78	3.31	2.35	1.89	1.62
1.67V/cell	35.2	21.7	17.2	13.5	9.24	6.84	5.64	3.28	2.33	1.87	1.61
1.70V/cell	34.2	21.1	16.7	13.2	9.07	6.72	5.55	3.26	2.32	1.87	1.60
1.75V/cell	32.8	20.2	16.2	12.8	8.85	6.55	5.44	3.21	2.30	1.85	1.59
1.80V/cell	30.9	19.0	15.3	12.1	8.53	6.31	5.27	3.13	2.23	1.80	1.55

### Constant Power Discharge Characteristics (Watt, 25°C)

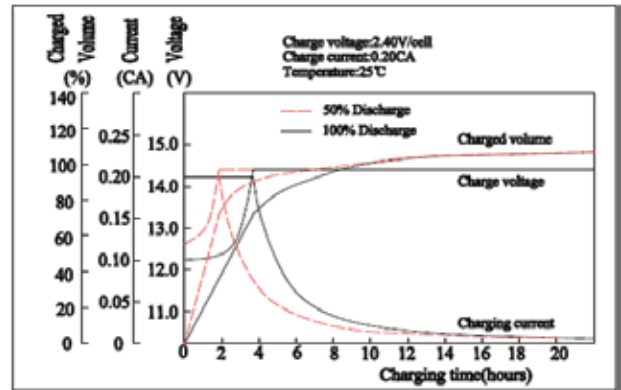
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	70.7	44.0	35.3	27.9	18.9	14.0	11.5	6.58	4.72	3.80	3.27
1.67V/cell	67.5	42.0	34.0	26.8	18.3	13.5	11.2	6.52	4.68	3.77	3.24
1.70V/cell	65.7	40.9	33.1	26.2	18.0	13.3	11.0	6.48	4.66	3.75	3.22
1.75V/cell	62.9	39.1	32.0	25.3	17.5	13.0	10.8	6.39	4.63	3.73	3.20
1.80V/cell	59.4	37.0	30.3	24.0	16.9	12.5	10.4	6.22	4.49	3.61	3.11

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

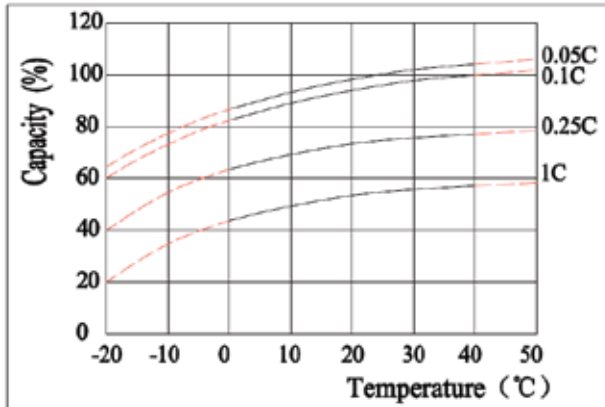
**Discharge Characteristics(25°C)**



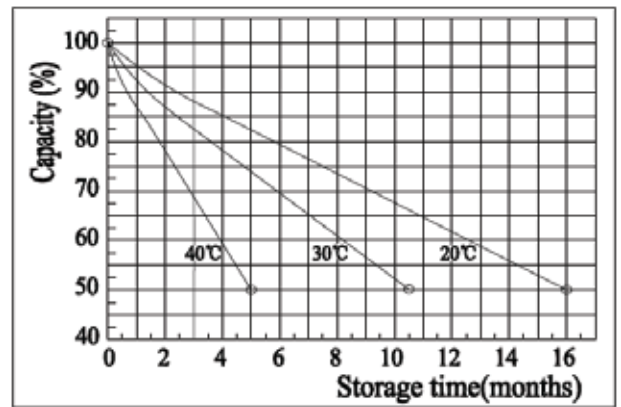
**Charging Characteristics(25°C)**



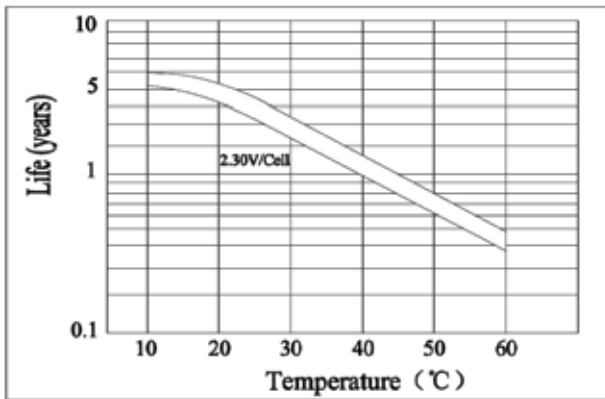
**Effect of Temperature on Capacity**



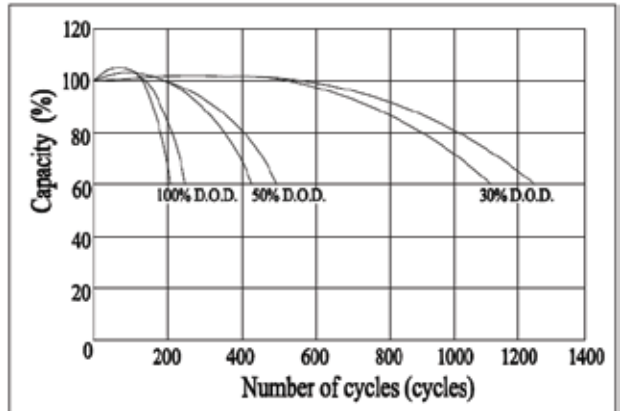
**Self-discharge Characteristics**



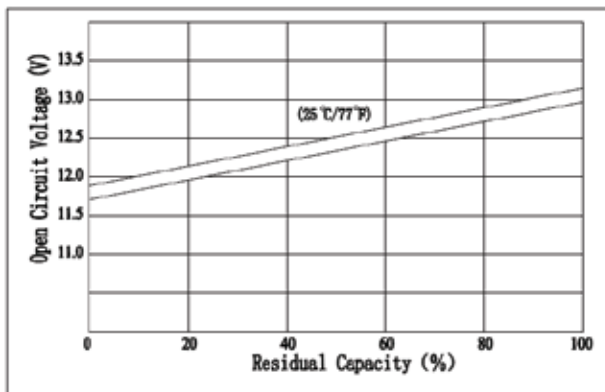
**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**



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



**The Relationship for Charging Voltage and Temperature**

