

Specifications

Nominal Voltage		12 V
Number of cell		6 cells
Capacity(20HR, 25°C)		7 Ah
Capacity(15min.rate, 25°C)		31 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		2.45kg (5.40lbs) ± 5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 20m Ω
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		2.1A
Terminal material		Copper
Maximum discharge current		105A(5 sec.)
Designed floating life(20°C)		3~5 years

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

Constant Current Discharge Characteristics (A, 25°C)

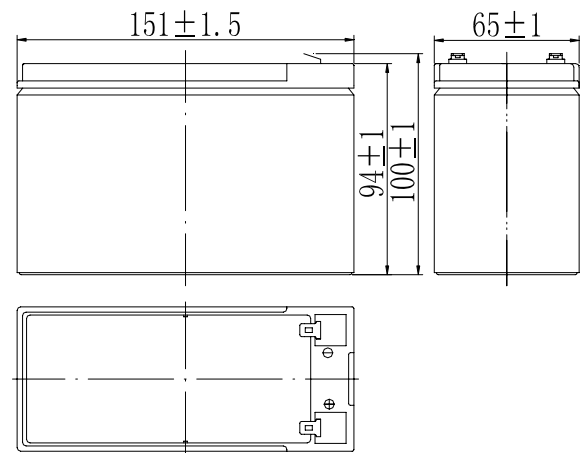
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	3h	5h	10h	20h
1.60V/cell	33.9	20.8	16.4	13.0	8.99	6.45	5.09	1.82	1.25	0.67	0.362
1.65V/cell	32.9	20.2	16.0	12.7	8.81	6.32	5.01	1.81	1.24	0.67	0.361
1.67V/cell	32.4	19.9	15.7	12.5	8.71	6.24	4.96	1.80	1.24	0.67	0.360
1.70V/cell	31.6	19.3	15.4	12.2	8.54	6.13	4.89	1.80	1.23	0.67	0.359
1.75V/cell	30.2	18.5	14.9	11.8	8.34	5.98	4.79	1.79	1.23	0.67	0.357
1.80V/cell	28.5	17.5	14.1	11.2	8.03	5.76	4.64	1.73	1.19	0.65	0.350

Constant Power Discharge Characteristics (Watt/cell, 25°C)

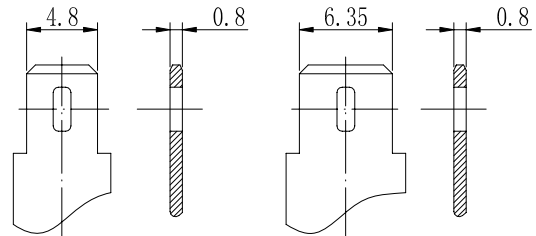
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	3h	5h	10h	20h
1.60V/cell	64.5	40.1	32.3	25.6	17.7	12.7	10.0	3.64	2.50	1.35	0.72
1.65V/cell	62.5	38.9	31.5	25.0	17.4	12.4	9.88	3.62	2.48	1.34	0.72
1.67V/cell	61.6	38.3	31.0	24.5	17.1	12.3	9.78	3.61	2.48	1.34	0.72
1.70V/cell	60.0	37.3	30.3	24.0	16.8	12.1	9.63	3.59	2.47	1.34	0.72
1.75V/cell	57.4	35.7	29.3	23.2	16.4	11.8	9.44	3.57	2.45	1.33	0.71
1.80V/cell	54.2	33.7	27.7	22.0	15.8	11.3	9.15	3.46	2.38	1.30	0.70

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

Dimensions



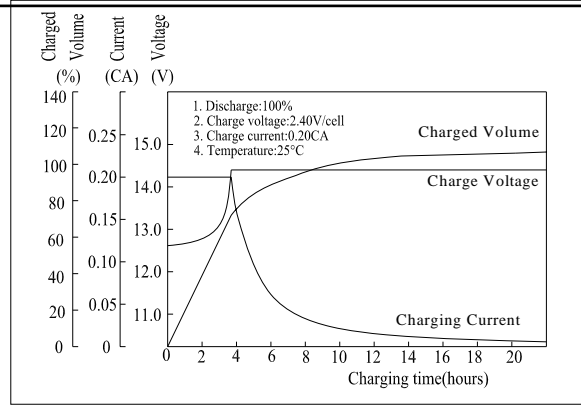
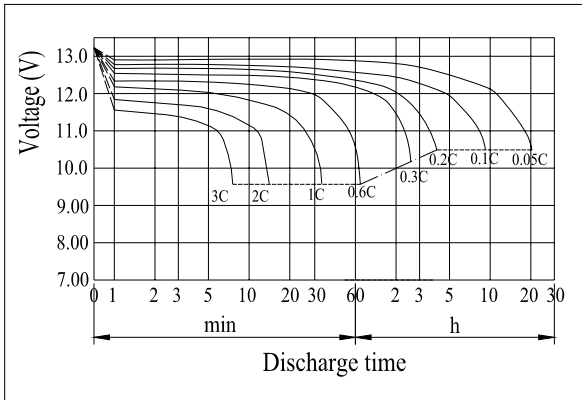
Terminal



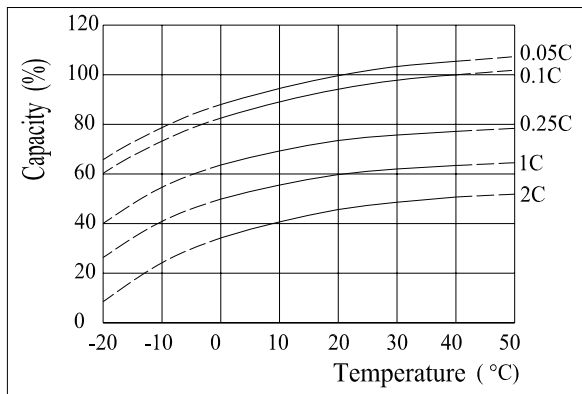
Terminal T1

Terminal T2

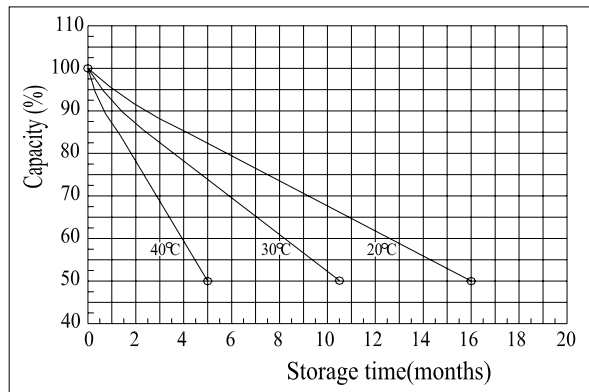
Discharge Characteristics(25°C)



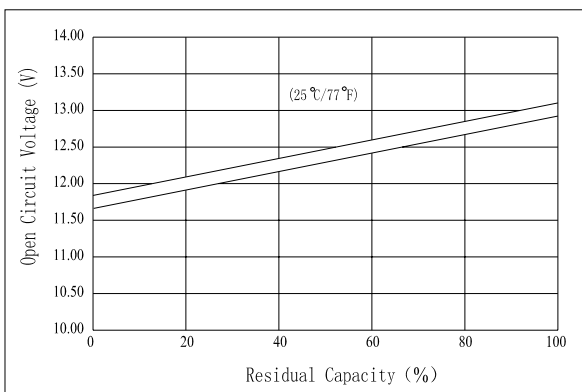
Effect of Temperature on Capacity



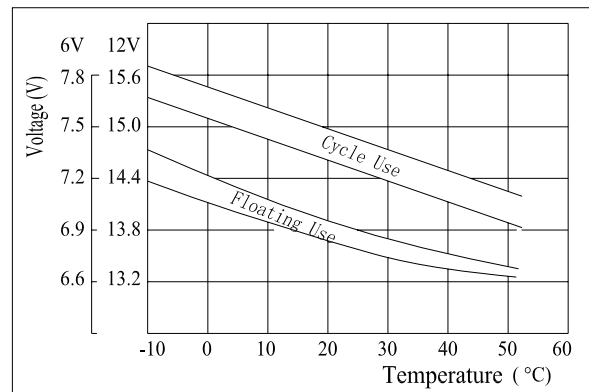
Self-discharge Characteristics



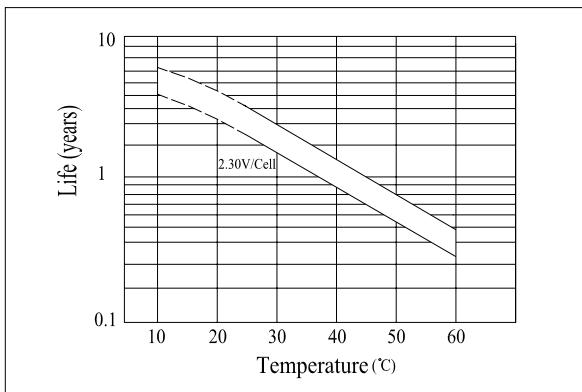
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



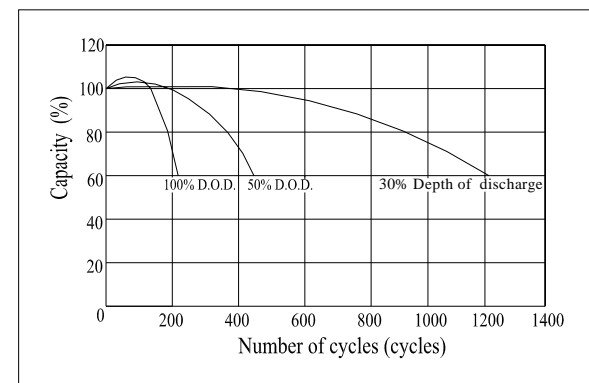
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Charging Characteristics(25°C)