

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	9Ah
	5HR(10.5V)	7.7Ah
	1HR(9.60V)	5.9 Ah
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) ± 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.)
Designed cycle life(25°C)		700 cycles@50% DOD

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ Designed suitable for deep cycle use;
- ◆ ABS container.

**Constant Current Discharge Characteristics (A, 25°C)**

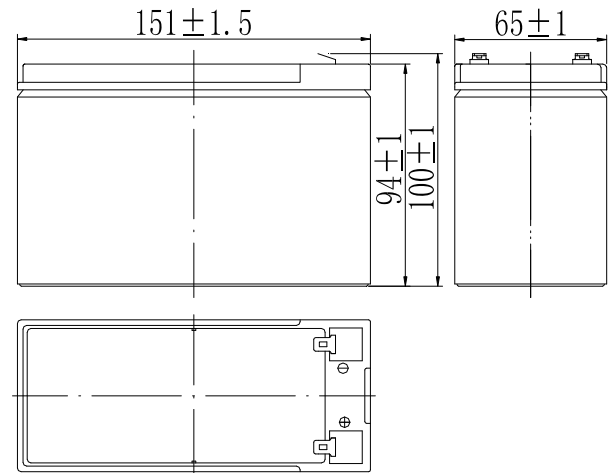
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	34.8	22.0	17.2	9.63	5.91	3.23	2.31	1.85	1.57	0.86	0.463
9.90V	33.8	21.4	16.9	9.44	5.82	3.20	2.30	1.84	1.57	0.85	0.460
10.2V	32.4	20.5	16.2	9.15	5.67	3.18	2.28	1.83	1.56	0.85	0.456
10.5V	31.0	19.7	15.7	8.94	5.55	3.12	2.26	1.81	1.54	0.84	0.450
10.8V	29.3	18.5	14.9	8.59	5.37	3.05	2.20	1.76	1.49	0.82	0.445

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

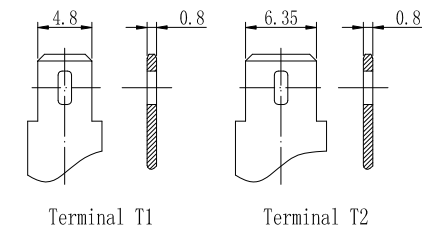
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	390	247	195	110	68.4	37.7	27.5	22.0	18.8	10.3	5.52
9.90V	378	240	192	108	67.4	37.4	27.3	21.9	18.6	10.2	5.50
10.2V	363	230	184	105	65.7	37.2	27.0	21.7	18.5	10.2	5.48
10.5V	347	221	179	103	64.4	36.5	26.9	21.6	18.4	10.1	5.43
10.8V	329	208	170	98.6	62.4	35.6	26.2	21.0	17.9	9.91	5.35

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

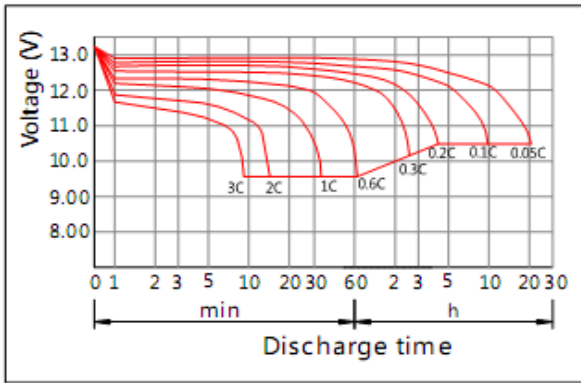
**Dimensions**



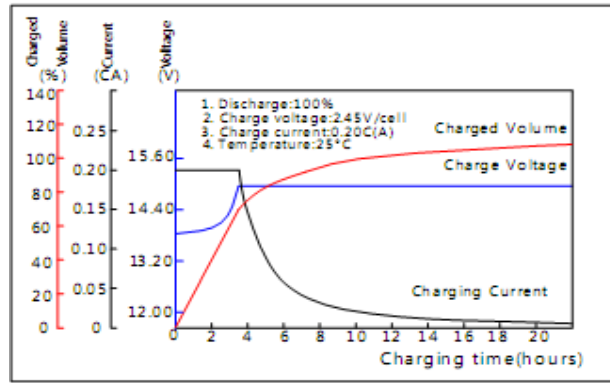
**Terminal**



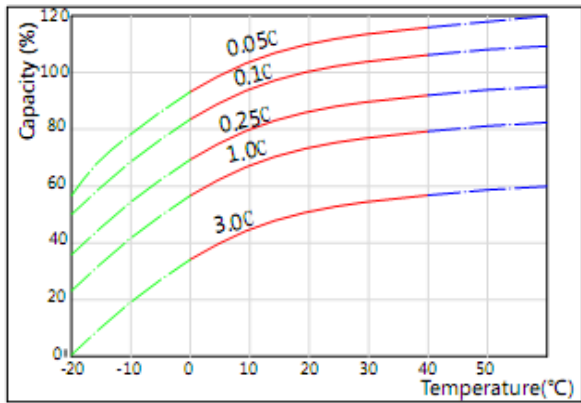
Discharge Characteristics(25°C)



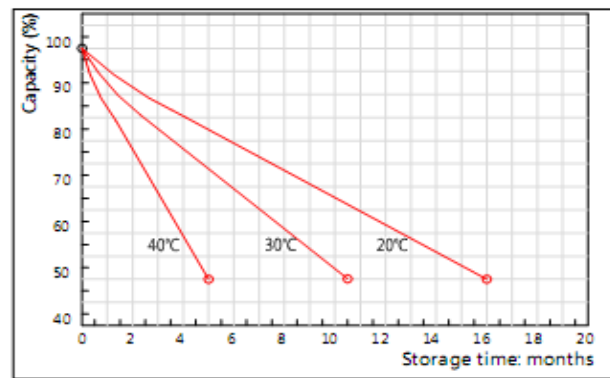
Charging Characteristics(25°C)



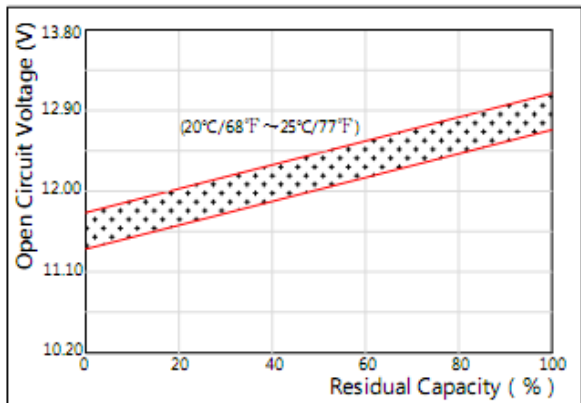
Effect of Temperature on Capacity



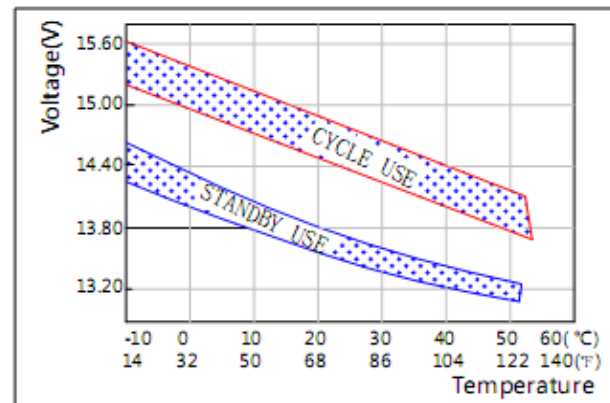
Self-discharge Characteristics



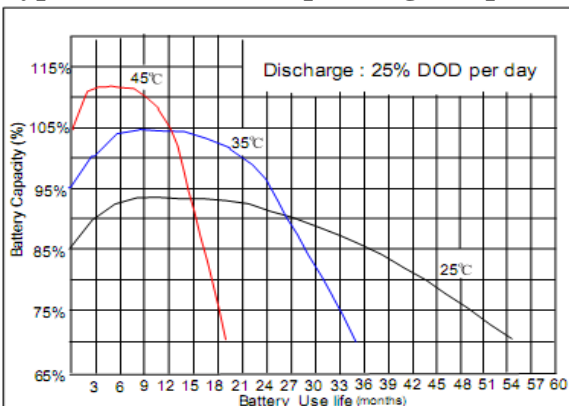
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Typical Use life and Operating Temperature



Cycle Life on D.O.D(25°C)

