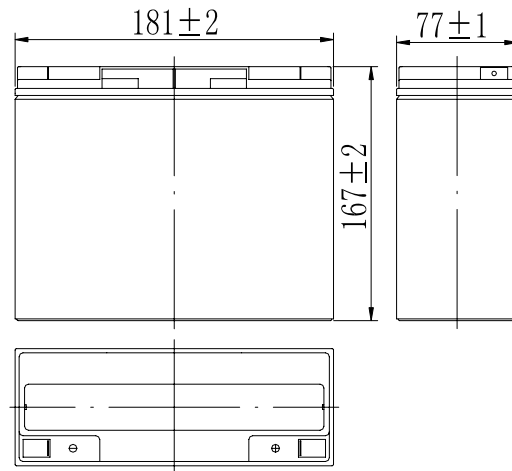


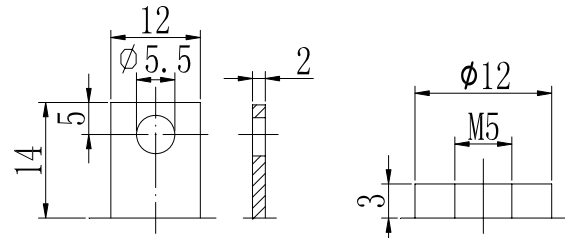
Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	15 Ah
	10HR(10.5V)	14Ah
	1HR(9.60V)	9.75Ah
Dimension	Length	181±2mm (7.13inch)
	Width	77±1mm (3.03inch)
	Height	167±2mm (6.57inch)
	Total Height	167±2mm (6.57inch)
Approx. Weight		5.0kg (11.0lbs)±4%
Terminal type		T3/T8
Internal resistance (Fully charged, 25°C)		Approx. 18mΩ
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		4.5A
Terminal material		Copper
Maximum discharge current		225A(5 sec.)
Designed floating life(20°C)		10years

Dimensions



Terminal



Terminal T3

Terminal T8

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

Constant Current Discharge Characteristics (A, 25°C)

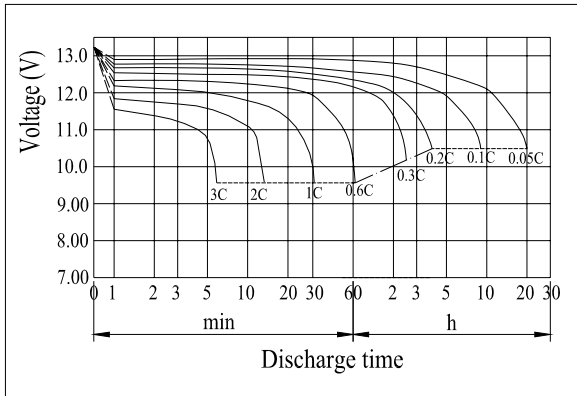
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	36.0	28.5	15.9	9.75	5.33	3.83	3.06	2.60	1.68	1.42	0.76
9.90V	34.9	27.8	15.6	9.60	5.30	3.80	3.04	2.59	1.67	1.41	0.76
10.2V	33.5	26.8	15.1	9.36	5.25	3.78	3.02	2.57	1.66	1.40	0.75
10.5V	32.0	25.9	14.7	9.17	5.17	3.75	3.00	2.55	1.65	1.40	0.75
10.8V	30.2	24.5	14.2	8.89	5.04	3.64	2.91	2.47	1.60	1.37	0.74

Constant Power Discharge Characteristics (Watt, 25°C)

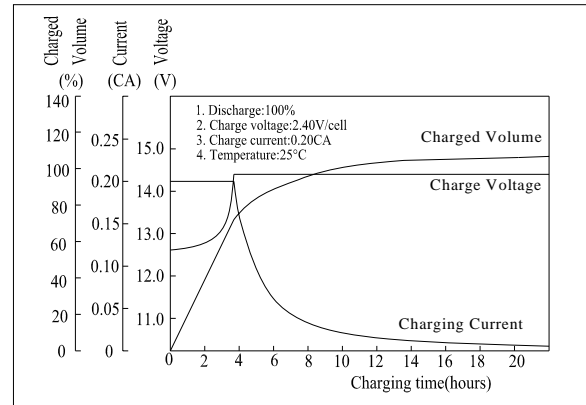
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	406	325	182	113	62.3	45.4	36.4	31.1	20.2	17.0	9.14
9.90V	394	317	179	111	62.0	45.2	36.2	30.9	20.1	16.9	9.10
10.2V	378	305	173	108	61.4	44.9	36.0	30.7	19.9	16.8	9.05
10.5V	361	295	169	106	60.5	44.6	35.7	30.4	19.8	16.7	9.00
10.8V	341	279	163	103	59.0	43.2	34.7	29.5	19.2	16.4	8.82

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

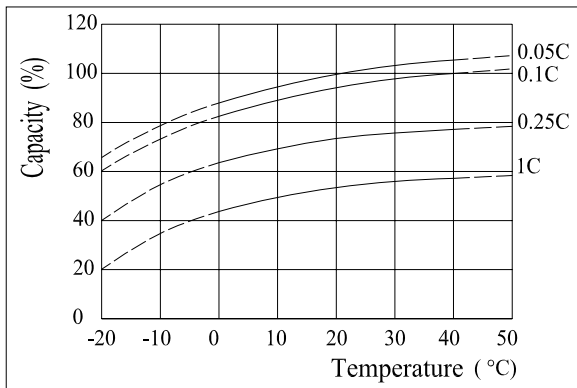
Discharge Characteristics(25°C)



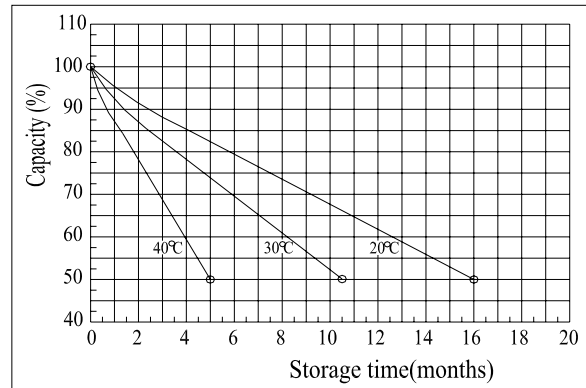
Charging Characteristics(25°C)



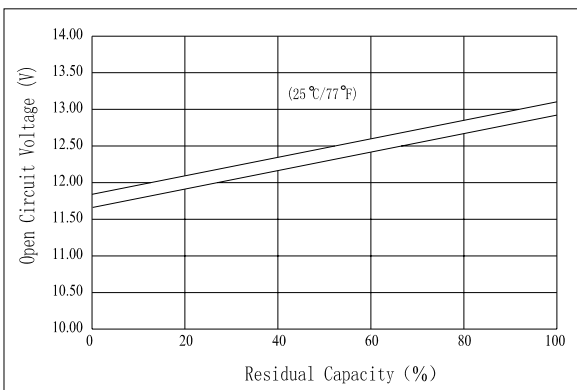
Effect of Temperature on Capacity



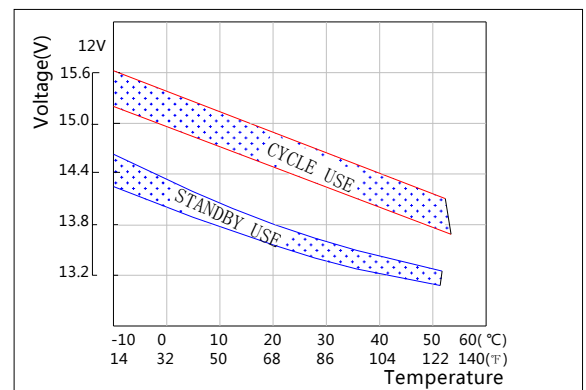
Self-discharge Characteristics



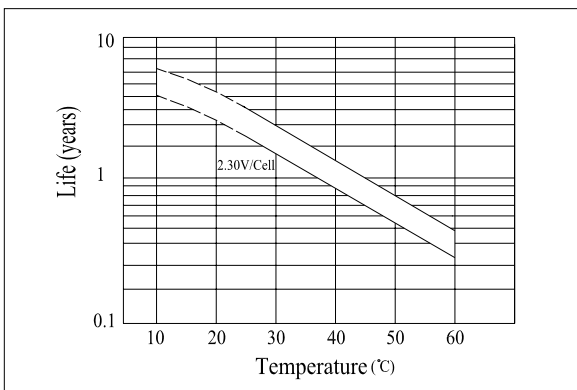
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

