

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	22 Ah
	10HR(10.5V)	20.5Ah
	1HR(9.60V)	14.4Ah
Dimension	Length	181 ± 2mm (7.13inch)
	Width	77 ± 1mm (3.03inch)
	Height	166 ± 2mm (6.54inch)
	Total Height	166 ± 2mm (6.54inch)
Approx. Weight		6.3kg (13.9lbs) ± 4%
Terminal type		T8
Internal resistance (Fully charged, 25°C)		Approx. 10mΩ
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		6.6A
Terminal material		Copper
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		12~15 years

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

Constant Current Discharge Characteristics (A, 25°C)

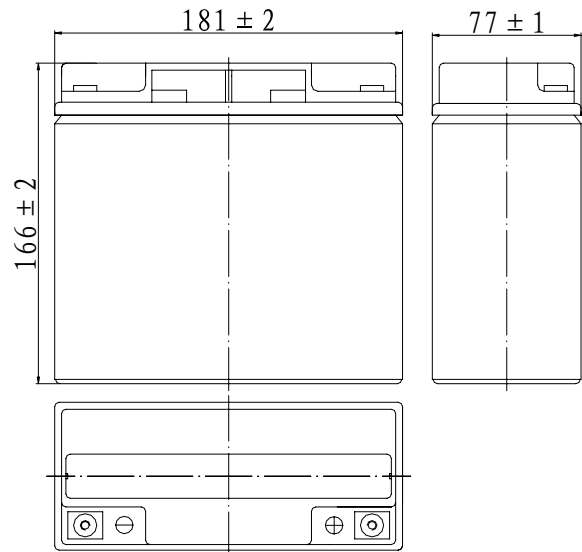
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	53.9	42.2	23.6	14.4	7.82	5.61	4.49	3.81	2.47	2.08	1.12
9.90V	52.2	41.2	23.1	14.2	7.77	5.58	4.46	3.79	2.45	2.07	1.11
10.2V	50.1	39.7	22.4	13.9	7.70	5.54	4.43	3.77	2.44	2.06	1.11
10.5V	47.9	38.3	21.8	13.6	7.58	5.50	4.40	3.74	2.42	2.05	1.10
10.8V	45.2	36.3	21.0	13.2	7.39	5.34	4.27	3.63	2.35	2.01	1.08

Constant Power Discharge Characteristics (Watt, 25°C)

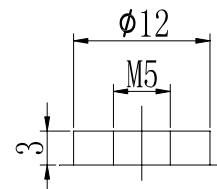
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	607	481	270	167	91.4	66.6	53.5	45.5	29.6	24.9	13.4
9.90V	589	470	265	165	90.9	66.3	53.1	45.3	29.4	24.8	13.3
10.2V	565	452	256	161	90.1	65.8	52.8	45.0	29.2	24.7	13.3
10.5V	541	437	250	157	88.7	65.3	52.4	44.7	29.0	24.6	13.2
10.8V	510	414	241	153	86.5	63.4	50.8	43.3	28.2	24.1	12.9

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

Dimensions

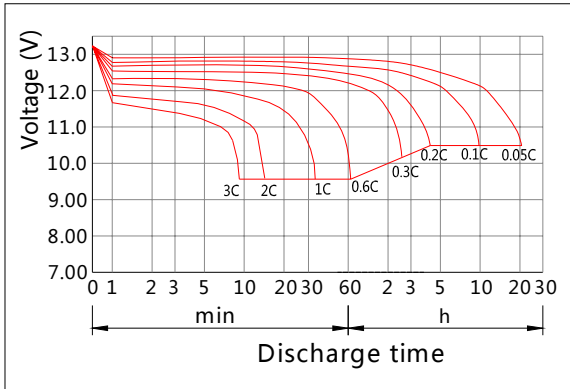


Terminal

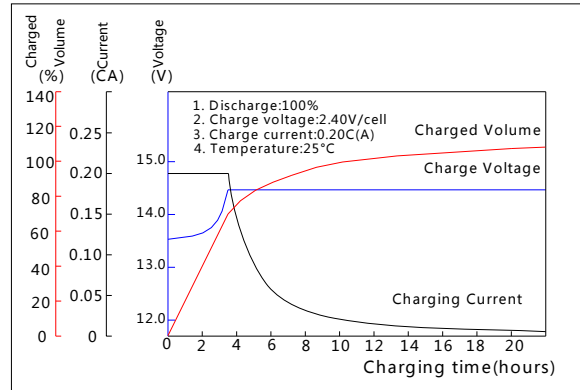


Terminal T8

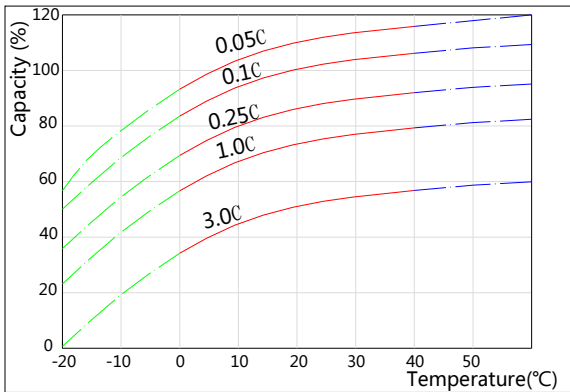
Discharge Characteristics(25°C)



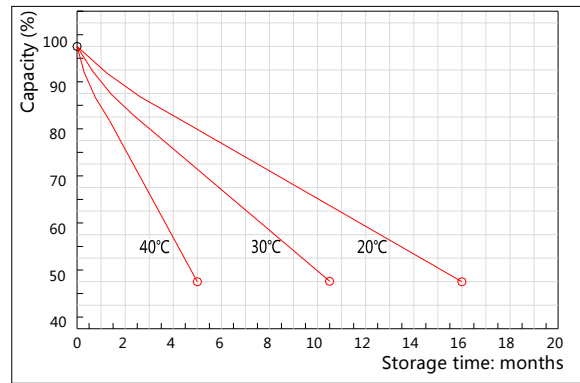
Charging Characteristics(25°C)



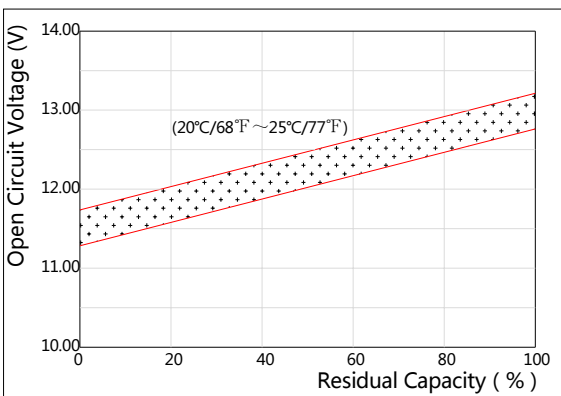
Effect of Temperature on Capacity



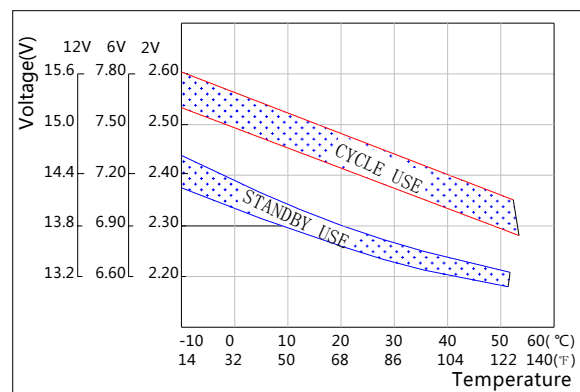
Self-discharge Characteristics



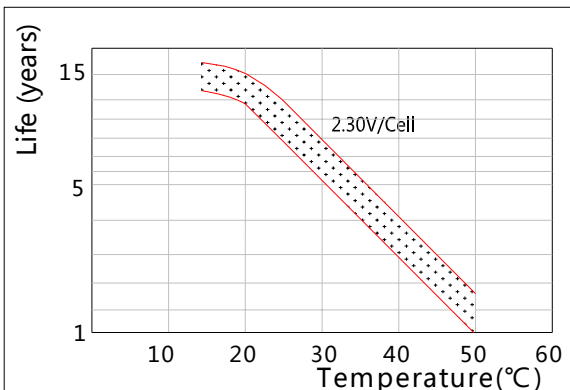
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

