

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	28Ah
	5HR(10.2V)	21.8Ah
	1HR(9.6V)	16.1Ah
Dimension	Length	166 ± 2mm (6.54inch)
	Width	125 ± 2mm (4.92inch)
	Height	175 ± 2mm (6.89inch)
	Total Height	175 ± 2mm (6.89inch)
Approx. Weight		9.0kg (19.8lbs) ± 4%
Terminal type		T8
Internal resistance (Fully charged, 25°C)		Approx. 14m Ω
Capacity affected by temperature (10HR)	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 55°C (5°F ~ 131°F)
	Charge	-10°C ~ 55°C (14°F ~ 131°F)
	Storage	-20°C ~ 55°C (-4°F ~ 131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		5.6A
Terminal material		Copper
Maximum discharge current		280 A(5 sec.)
Designed floating life(20°C)		10 years

- ◆ Gelled electrolyte technology;
- ◆ PVC separator;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	37.0	25.6	16.1	9.42	6.65	5.29	4.42	3.78	2.94	2.63	1.44	---	---
9.90V	36.3	25.1	15.8	9.37	6.59	5.26	4.4	3.75	2.91	2.61	1.44	---	---
10.2V	34.9	24.2	15.6	9.29	6.57	5.22	4.38	3.72	2.91	2.61	1.41	0.63	---
10.5V	33.7	23.8	15.1	9.15	6.51	5.18	4.34	3.7	2.87	2.6	1.4	0.62	0.257
10.8V	31.9	22.8	14.7	8.93	6.32	5.01	4.2	3.58	2.8	2.58	1.4	0.62	0.257

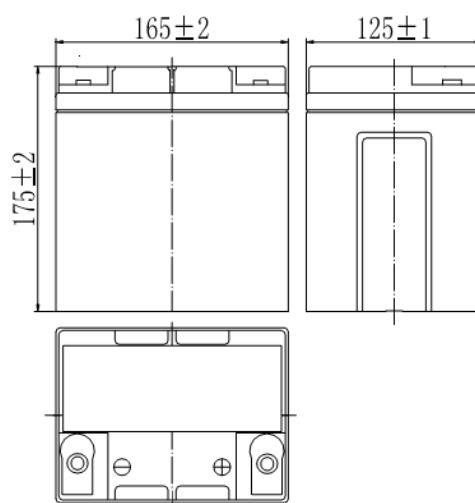
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	413	292	186	110	78.4	62.4	52.6	44.8	35.0	31.4	17.3	---	---
9.90V	404	285	184	109	78.2	62.2	52.4	44.5	35.0	31.4	17.3	---	---
10.2V	389	278	179	108	77.6	61.6	51.8	44.2	34.7	31.3	17.2	7.49	---
10.5V	375	270	175	106	77.0	61.3	51.5	44.0	34.4	31.2	16.9	7.46	3.12
10.8V	356	261	170	104	74.5	59.4	50.1	42.6	33.3	30.8	16.9	7.46	3.08

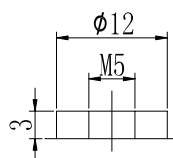
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions

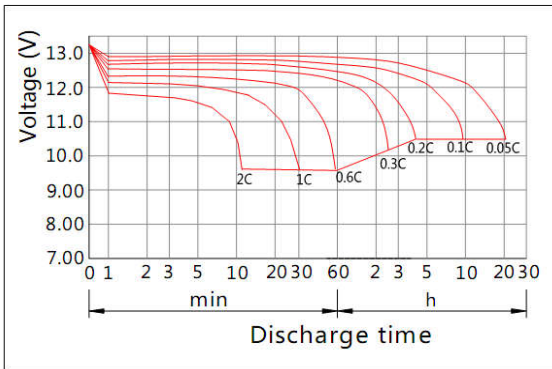


Terminal

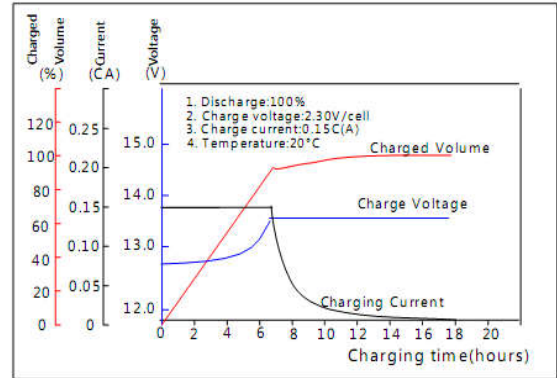


Terminal T8

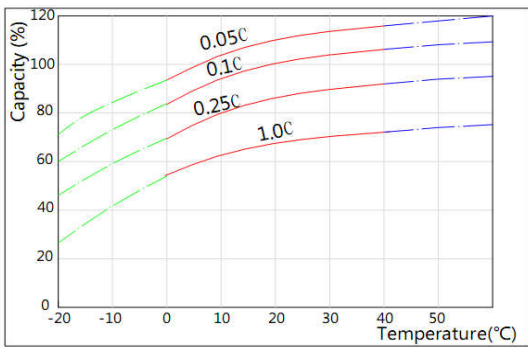
Discharge Characteristics(25°C)



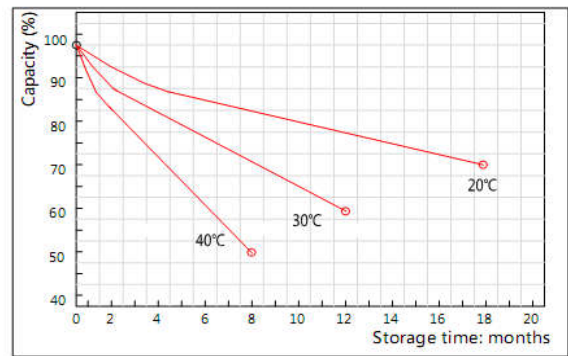
Charging Characteristics(25°C)



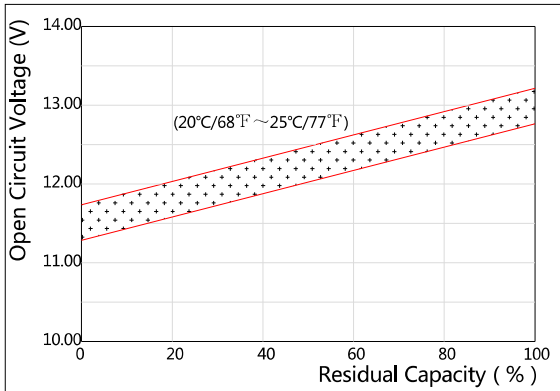
Effect of Temperature on Capacity



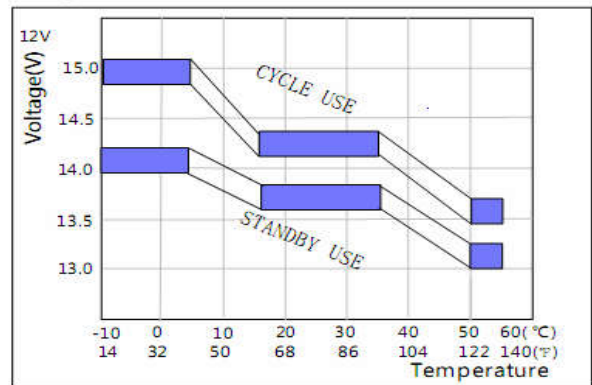
Self-discharge Characteristics



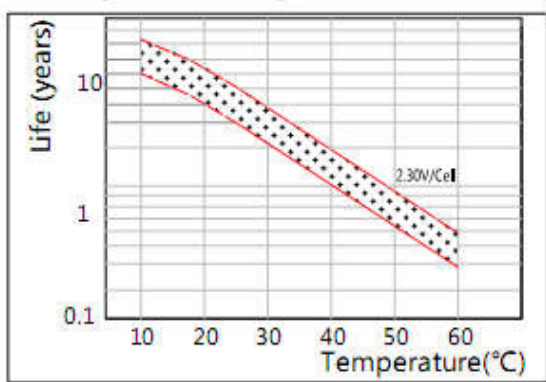
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

