

Specifications

Nominal Voltage		12 V
Capacity (25℃)	10HR(10.8V)	60 Ah
	5HR(10.5V)	52.5Ah
	1HR(9.60V)	37.2Ah
Dimension	Length	260mm±2 (10.24inch)
	Width	168mm±2 (6.61inch)
	Height	211mm±2 (8.31inch)
	Total Height	T5: 233±2mm (9.17inch) T9: 214±2mm (8.43inch)
Approx. Weight		21kg (46.3lbs)±4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25℃)		Approx. 7mΩ
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77°F±5°F)
Operating temperature range	Discharge	-15℃~70℃(5°F~158°F)
	Charge	-10℃~70℃(14°F~158°F)
	Storage	-20℃~70℃(-4°F~158°F)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 14.90V Temperature compensation: -30mV/℃
Maximum charging current		18A
Terminal material		Copper
Maximum discharge current		600A(5 sec.)
Designed floating life(20℃)		12 years

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

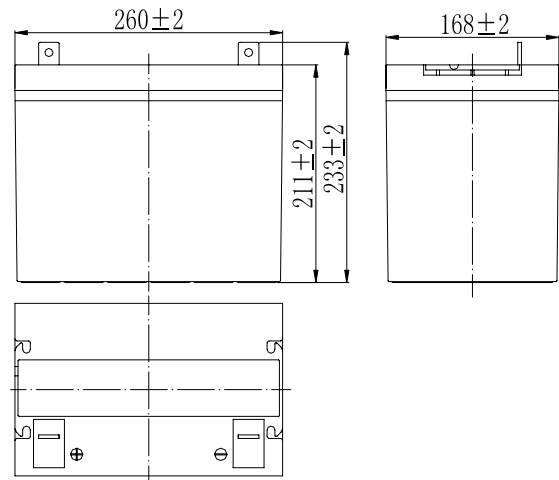
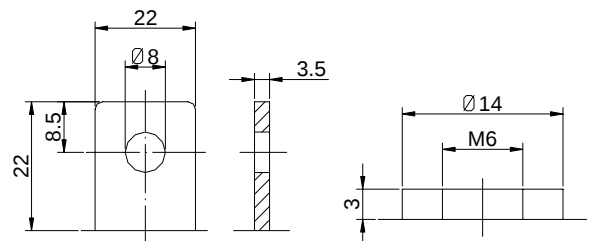
Constant Current Discharge Characteristics (A, 25℃)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	122	97.0	58.8	37.2	21.9	15.3	12.5	10.7	7.34	6.11	3.21
9.90V	119	94.7	57.6	36.6	21.8	15.2	12.5	10.6	7.30	6.10	3.20
10.2V	114	91.2	55.9	35.7	21.6	15.1	12.4	10.6	7.25	6.08	3.19
10.5V	109	88.1	54.5	35.0	21.3	15.0	12.3	10.5	7.20	6.04	3.17
10.8V	103	83.4	52.5	33.9	20.7	14.6	11.9	10.2	6.98	6.00	3.15

Constant Power Discharge Characteristics (Watt, 25℃)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1320	1065	660	424	254	180	148	127	87.2	72.9	38.5
9.90V	1280	1040	647	418	252	179	147	126	86.7	72.8	38.4
10.2V	1228	1001	627	407	250	178	146	125	86.1	72.6	38.3
10.5V	1175	967	612	399	246	176	145	124	85.5	72.1	38.1
10.8V	1109	916	589	387	240	171	140	120	83.0	71.6	37.8

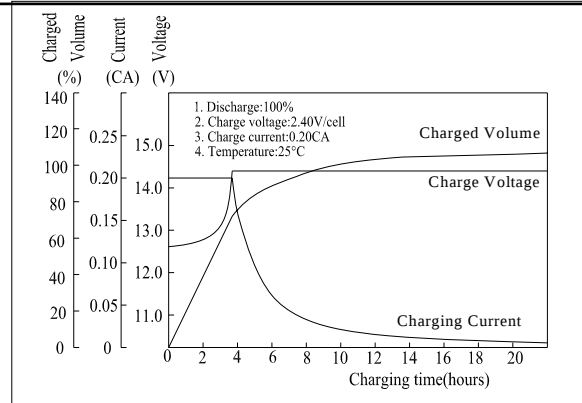
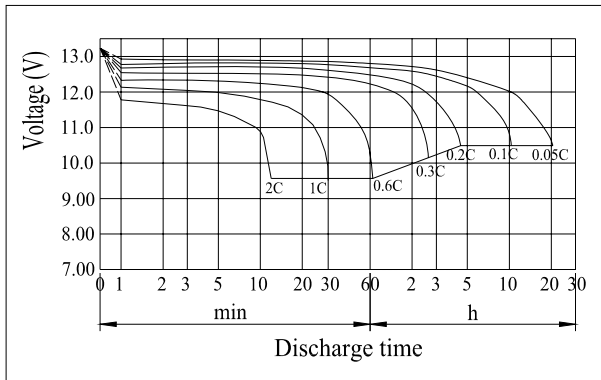
Note: The above characteristics data can be obtained within three charge/discharge cycles.

Dimensions**Terminal**

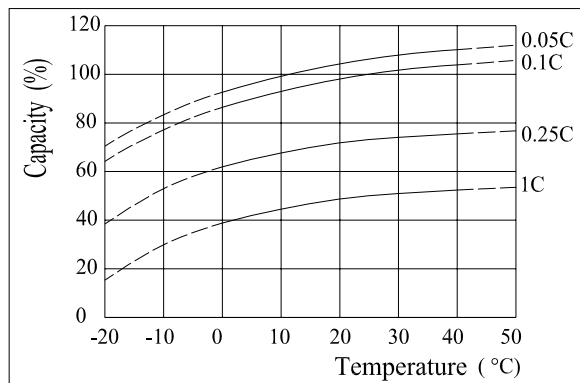
Terminal T5

Terminal T9

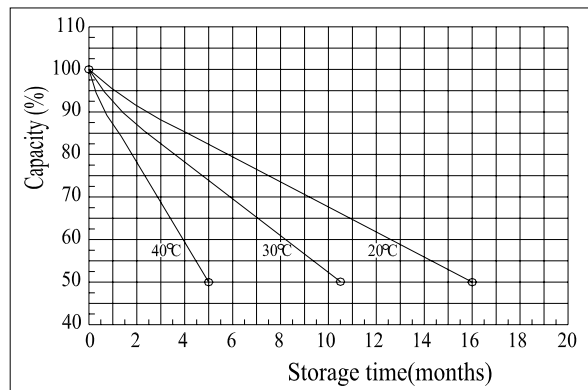
Discharge Characteristics(25°C)



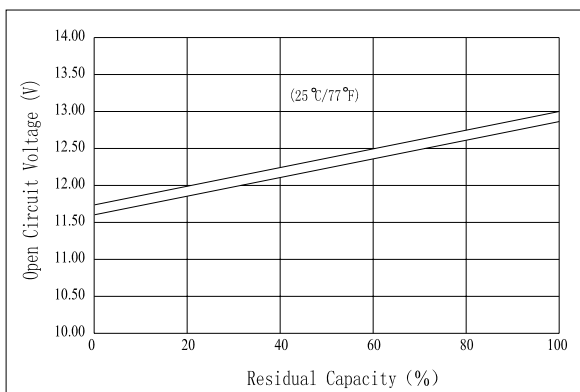
Effect of Temperature on Capacity



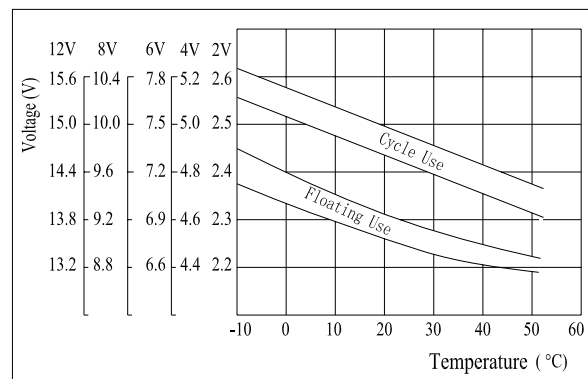
Self-discharge Characteristics



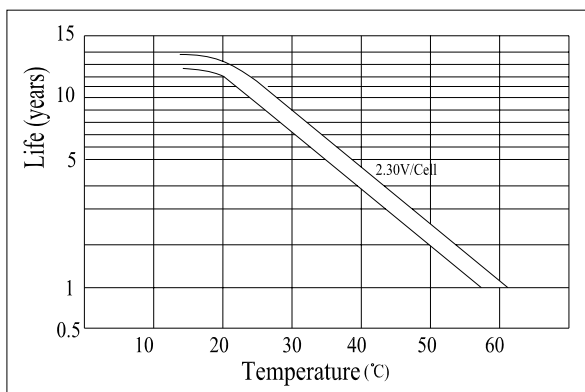
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



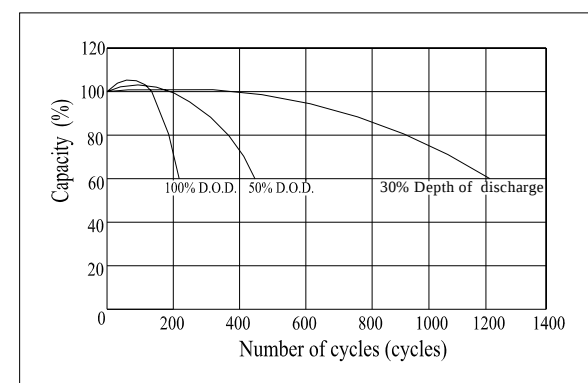
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Charging Characteristics(25°C)