

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	18Ah
	10HR(10.5V)	16.4Ah
	1HR(9.60V)	10.8Ah
Dimension	Length	181 ± 2mm (7.13inch)
	Width	77 ± 1mm (3.03inch)
	Height	167 ± 2mm (6.57inch)
	Total Height	167 ± 2mm (6.57inch)
Approx. Weight		5.3kg (11.7lbs) ± 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)		14.40 to 14.70V Temperature compensation: -30mV/°C
Maximum charging current		5.4A
Terminal material		Copper
Maximum discharge current		270A(5 sec.)
Designed floating life(20°C)		12 years

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

Constant Current Discharge Characteristics (A, 25°C)

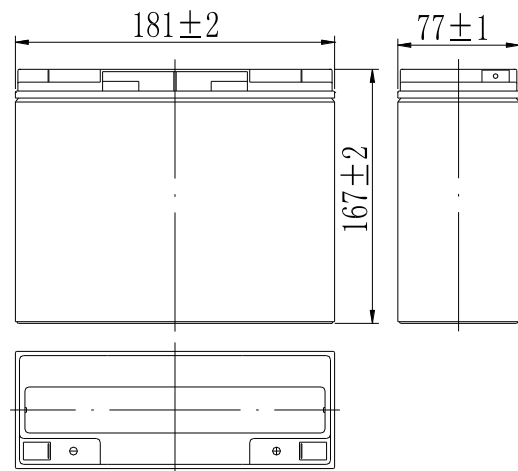
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	36.9	30.6	18.0	10.8	6.21	4.41	3.58	2.94	1.96	1.66	0.91
9.90V	35.8	29.9	17.6	10.6	6.18	4.38	3.56	2.92	1.95	1.66	0.91
10.2V	34.3	28.8	17.1	10.4	6.12	4.35	3.53	2.90	1.94	1.65	0.91
10.5V	32.8	27.8	16.7	10.2	6.03	4.32	3.51	2.88	1.93	1.64	0.90
10.8V	31.0	26.3	16.1	9.85	5.88	4.19	3.40	2.79	1.87	1.61	0.88

Constant Power Discharge Characteristics (Watt, 25°C)

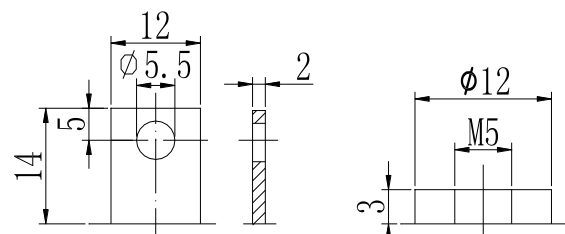
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	416	349	206	125	72.7	52.3	42.6	35.1	23.6	20.0	11.0
9.90V	404	340	202	123	72.2	52.0	42.4	34.9	23.4	19.9	10.9
10.2V	387	328	196	120	71.6	51.7	42.1	34.6	23.3	19.8	10.9
10.5V	370	317	191	118	70.5	51.3	41.8	34.4	23.1	19.7	10.8
10.8V	350	300	184	114	68.7	49.8	40.5	33.4	22.4	19.3	10.6

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

Dimensions



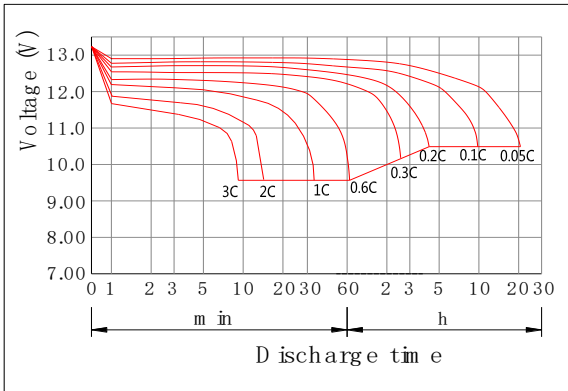
Terminal



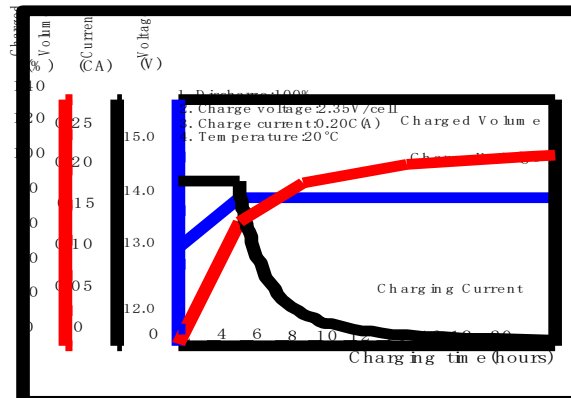
Terminal T3

Terminal T8

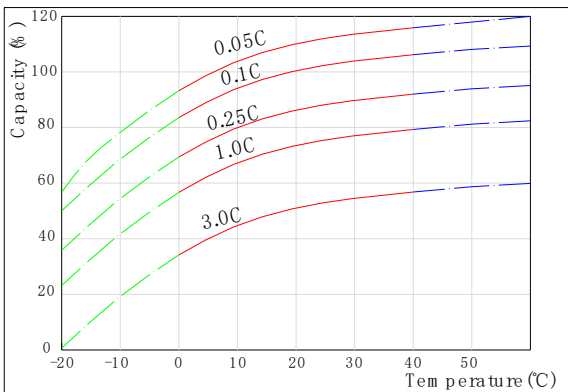
Discharge Characteristics(25°C)



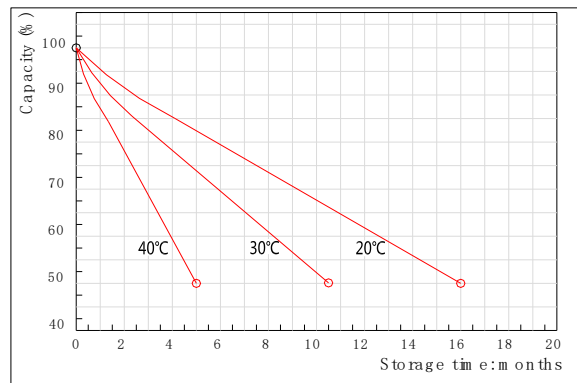
Charging Characteristics(25°C)



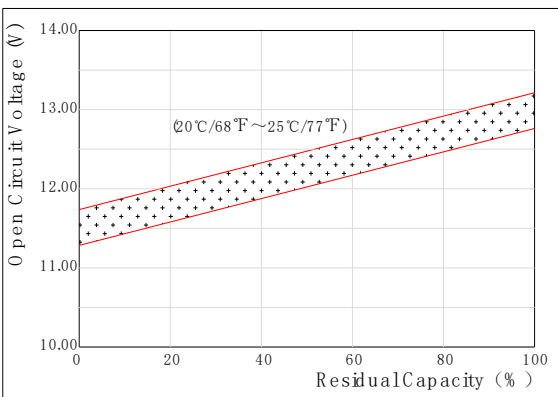
Effect of Temperature on Capacity



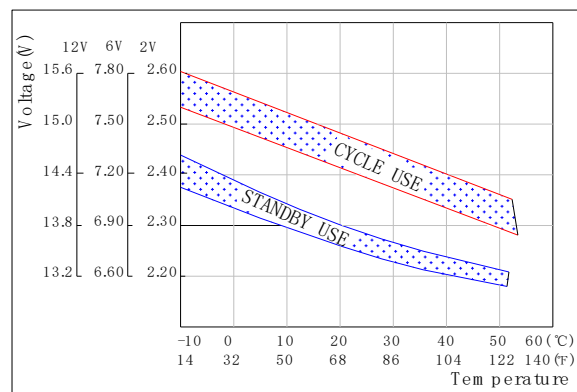
Self-discharge Characteristics



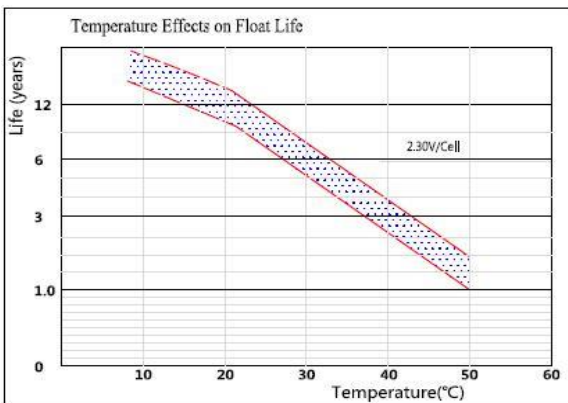
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

