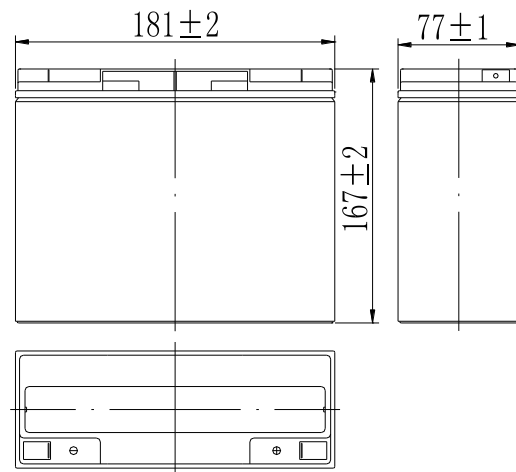


Specifications

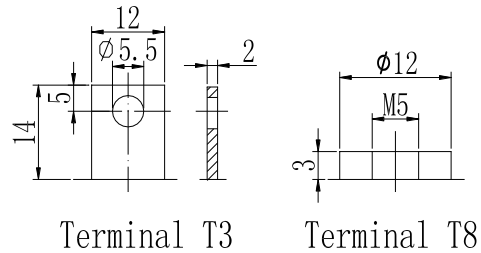
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	18Ah
	120HR(11.1V)	20.2Ah
	1HR(9.60V)	11.8Ah
Dimension	Length	181 ± 2mm (7.13inch)
	Width	77 ± 1mm (3.03inch)
	Height	167 ± 2mm (6.57inch)
	Total Height	167 ± 2mm (6.57inch)
Approx. Weight		5.3kg (11.7lbs) ± 4%
Terminal type & material		T3/T8 Copper
Internal resistance (Fully charged, 25°C)		Approx. 16mΩ
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		5.4A
Maximum discharge current		270A(5 sec.)
Designed floating life(20°C)		10years
Designed cycle life(25°C)		350 cycles@80% DOD



Dimensions



Terminal



- ◆ Absorbent glass mat technology;
- ◆ ABS container, Recognized by UL & CE;
- ◆ Designed both for deep cycle use&floating charge use;
- ◆ **10 Years long life designed floating life.**

Constant Current Discharge Characteristics (A, 25°C)

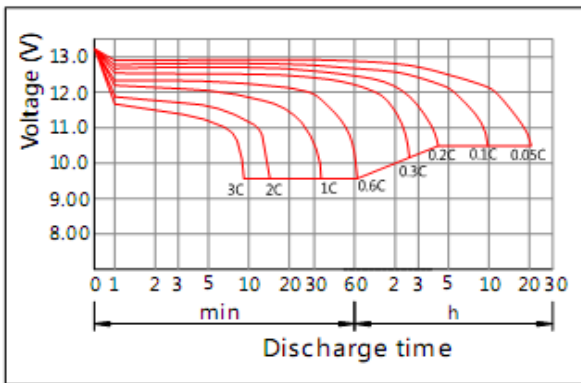
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	69.7	44.0	34.5	19.3	11.8	6.45	4.63	3.70	3.14	1.72	0.93
9.90V	67.6	42.8	33.8	18.9	11.6	6.40	4.60	3.68	3.14	1.70	0.92
10.2V	64.8	41.0	32.4	18.3	11.3	6.35	4.55	3.65	3.11	1.70	0.91
10.5V	62.0	39.3	31.4	17.9	11.1	6.25	4.53	3.63	3.09	1.67	0.90
10.8V	58.6	37.0	29.8	17.2	10.7	6.09	4.40	3.52	2.98	1.65	0.89

Constant Power Discharge Characteristics (Watt, 25°C)

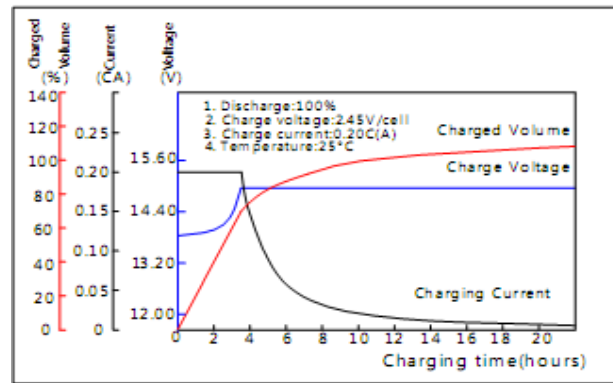
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	779	494	391	221	137	75.3	54.9	44.0	37.5	20.5	11.03
9.90V	756	481	383	216	135	74.8	54.6	43.7	37.3	20.4	11.01
10.2V	725	460	368	210	131	74.3	54.0	43.5	37.0	20.4	10.95
10.5V	694	442	357	205	129	73.0	53.7	43.2	36.8	20.2	10.85
10.8V	658	417	339	197	125	71.2	52.5	41.9	35.7	19.8	10.70

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

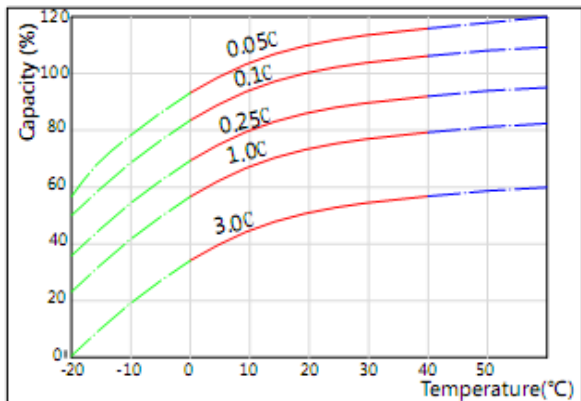
Discharge Characteristics(25°C)



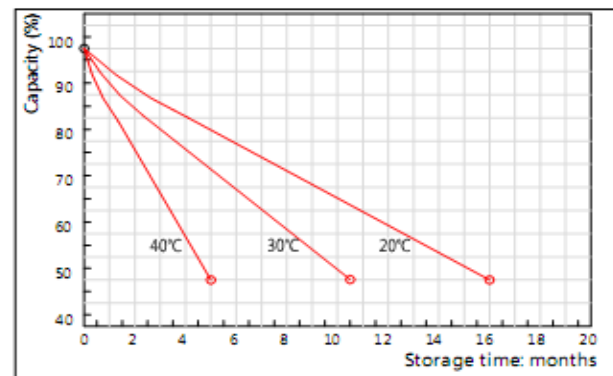
Charging Characteristics(25°C)



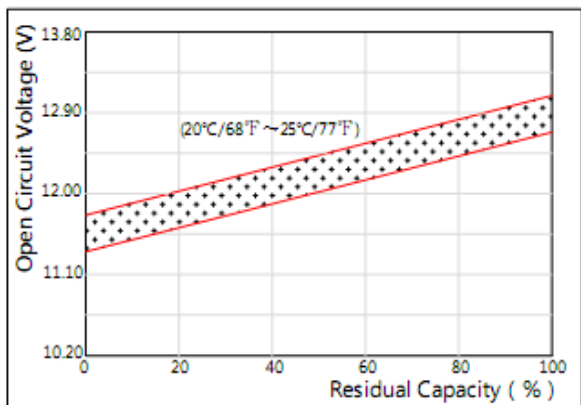
Effect of Temperature on Capacity



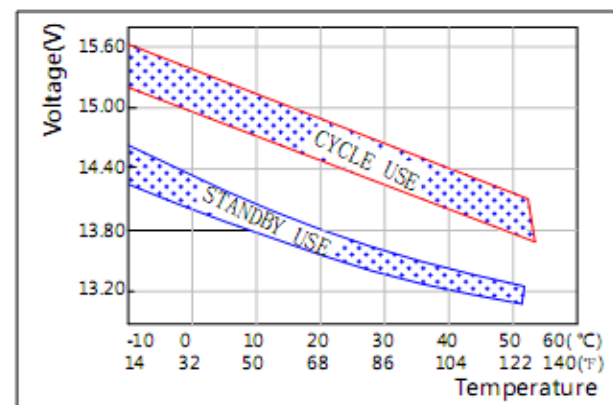
Self-discharge Characteristics



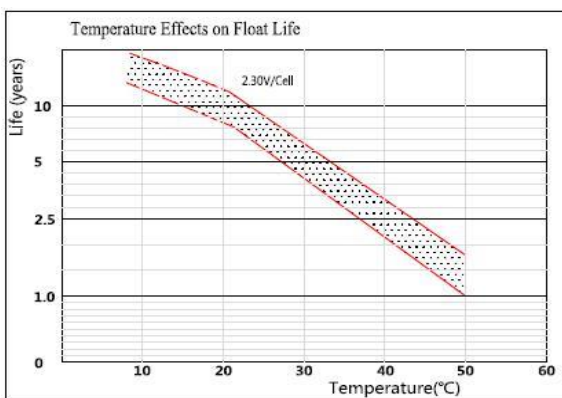
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Typical Use life and Operating Temperature



Cycle Life on D.O.D(25°C)

