

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	18Ah
	10HR(10.5V)	16.7Ah
	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		T3/T8
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
Terminal material		Copper
Maximum discharge current		270A(5 sec.)
Designed floating life(20°C)		3~5 years

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

Constant Current Discharge Characteristics (A, 25°C)

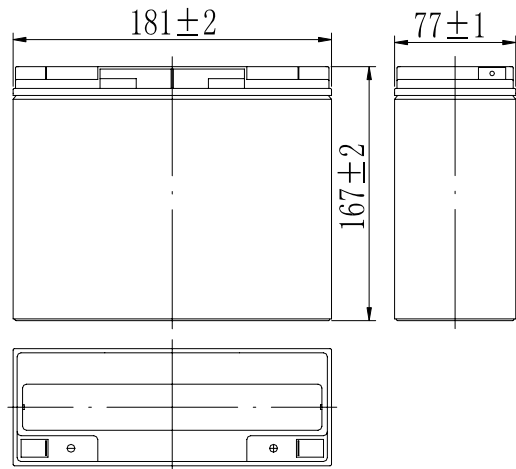
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	44.1	34.5	19.3	11.8	6.39	4.59	3.67	3.12	2.02	1.70	0.91
9.90V	42.7	33.7	18.9	11.6	6.36	4.56	3.65	3.10	2.01	1.69	0.91
10.2V	41.0	32.5	18.3	11.3	6.30	4.53	3.63	3.08	1.99	1.68	0.91
10.5V	39.2	31.4	17.9	11.1	6.21	4.50	3.60	3.06	1.98	1.67	0.90
10.8V	37.0	29.7	17.2	10.8	6.05	4.37	3.49	2.97	1.92	1.64	0.88

Constant Power Discharge Characteristics (Watt, 25°C)

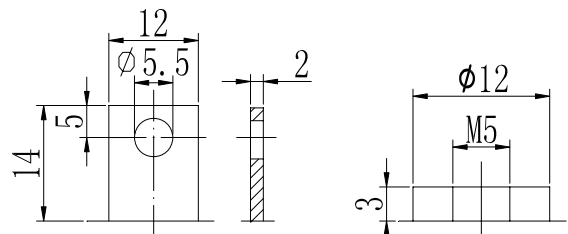
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	497	394	221	137	74.8	54.5	43.7	37.3	24.2	20.4	11.0
9.90V	482	384	216	135	74.4	54.2	43.5	37.0	24.1	20.3	10.9
10.2V	462	370	210	131	73.7	53.8	43.2	36.8	23.9	20.2	10.9
10.5V	442	358	205	129	72.6	53.5	42.9	36.5	23.8	20.1	10.8
10.8V	418	339	197	125	70.8	51.9	41.6	35.4	23.0	19.7	10.6

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

Dimensions



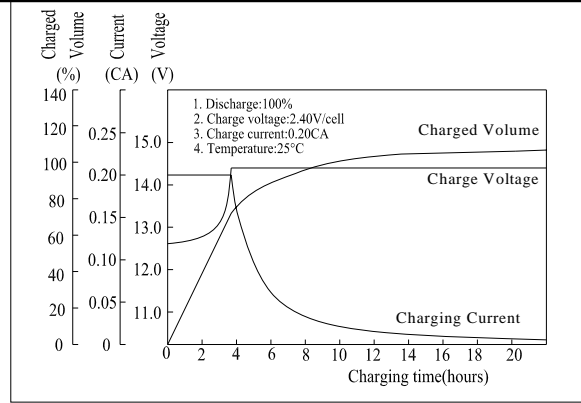
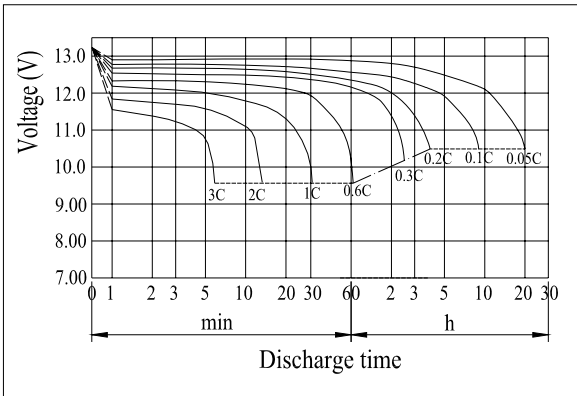
Terminal



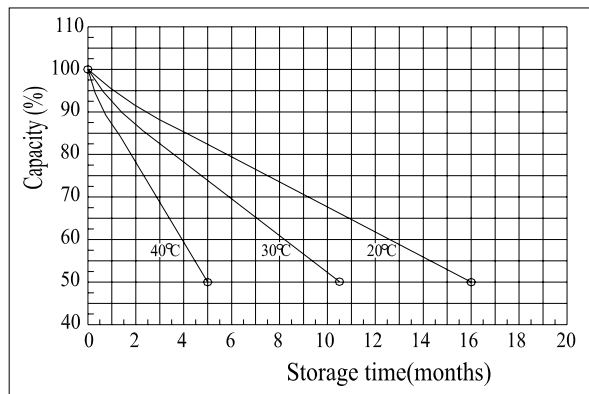
Terminal T3

Terminal T8

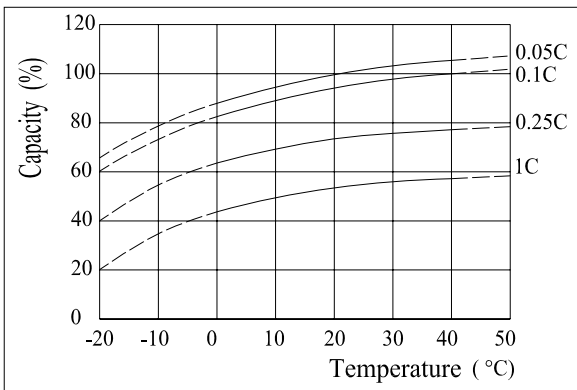
Discharge Characteristics(25°C)



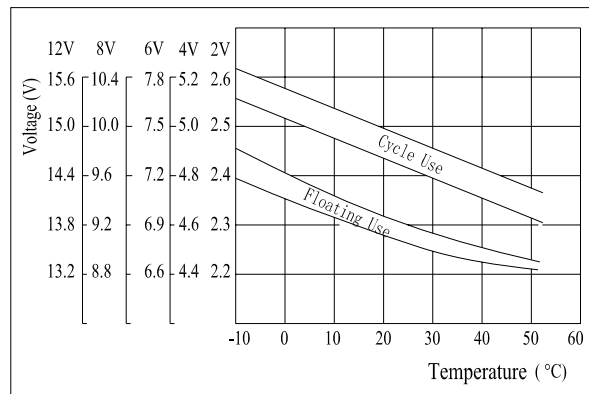
Self-discharge Characteristics



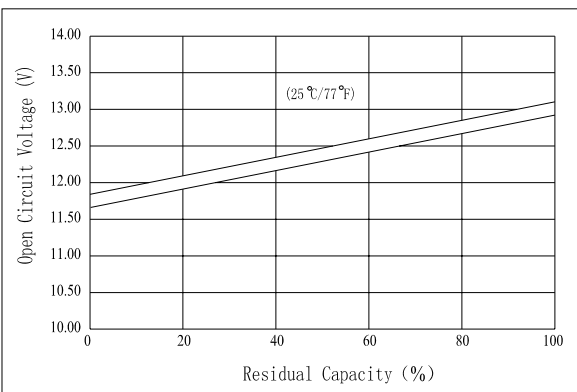
Effect of Temperature on Capacity



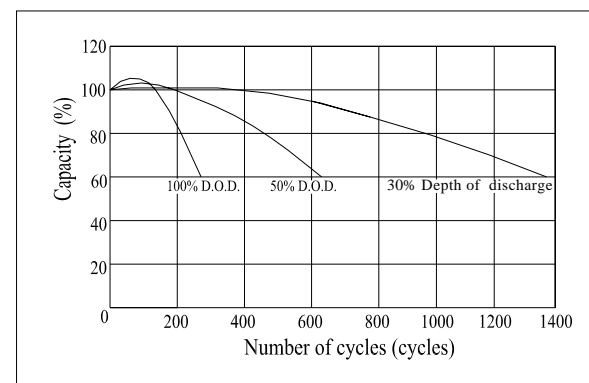
The Relationship for Charging Voltage and Temperature



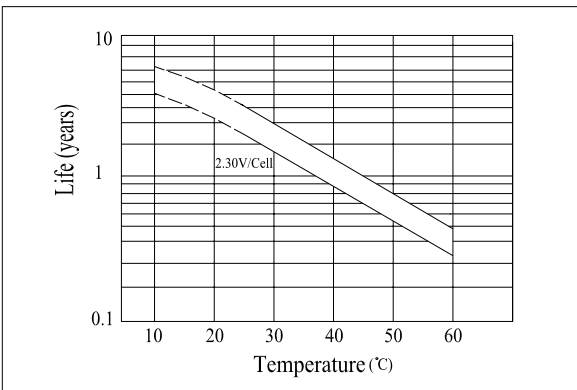
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Cycle Life on D.O.D(25°C)



Floating Life on Temperature



Charging Characteristics(25°C)