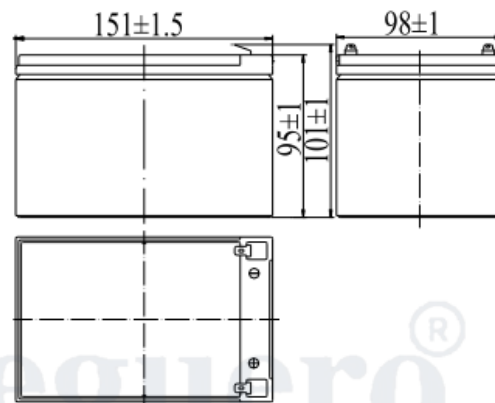


Specifications

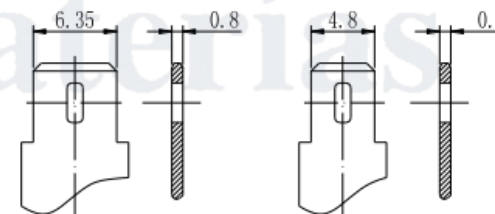
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	14Ah
	10HR(10.5V)	13Ah
	1HR(9.60V)	9.1Ah
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	98 ± 1mm (3.86inch)
	Height	95 ± 1mm (3.74inch)
	Total Height	101 ± 1mm (3.98inch)
Approx. Weight		3.85kg (8.48lbs) ± 5%
Terminal type		T2/T1
Internal resistance (Fully charged, 25°C)		Approx. 11mΩ
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		4.2A
Terminal material		Copper
Maximum discharge current		180A(5 sec.)
Designed floating life(20°C)		10years



Dimensions



Terminal



Terminal T2

Terminal T1

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

Constant Current Discharge Characteristics (A, 25°C)

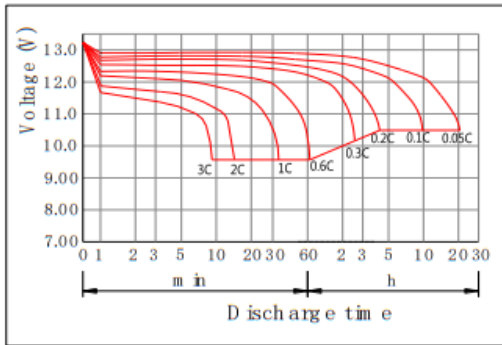
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	52.8	33.6	26.6	14.8	9.10	4.97	3.57	2.86	2.43	1.57	1.32	0.71
9.90V	51.4	32.6	26.0	14.5	8.96	4.94	3.55	2.84	2.41	1.56	1.32	0.71
10.2V	49.2	31.2	25.0	14.1	8.74	4.90	3.52	2.82	2.40	1.55	1.31	0.70
10.5V	47.4	29.9	24.2	13.8	8.56	4.83	3.50	2.80	2.38	1.54	1.30	0.70
10.8V	44.7	28.2	22.9	13.3	8.30	4.70	3.40	2.72	2.31	1.49	1.28	0.69

Constant Power Discharge Characteristics (Watt, 25°C)

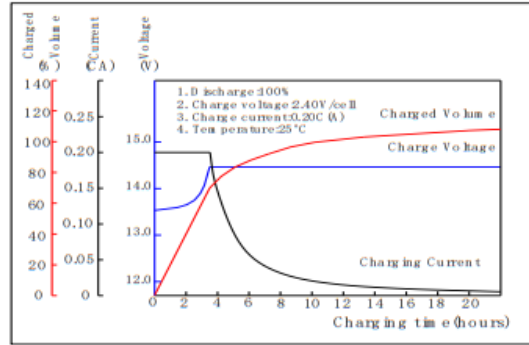
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	596	379	303	170	105	58.2	42.4	34.0	29.0	18.8	15.9	8.53
9.90V	580	368	296	167	104	57.8	42.2	33.8	28.8	18.7	15.8	8.49
10.2V	555	352	285	162	101	57.3	41.9	33.6	28.6	18.6	15.7	8.45
10.5V	534	337	275	158	99.2	56.5	41.6	33.3	28.4	18.5	15.6	8.40
10.8V	504	318	261	152	96.1	55.0	40.3	32.3	27.6	17.9	15.3	8.23

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

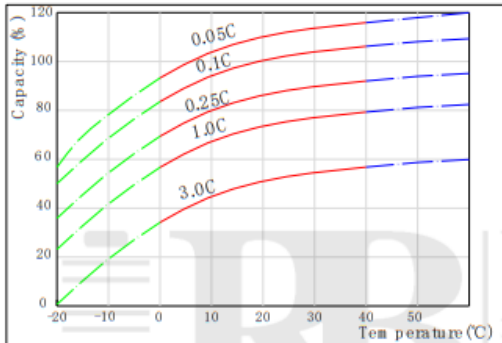
Discharge Characteristics(25°C)



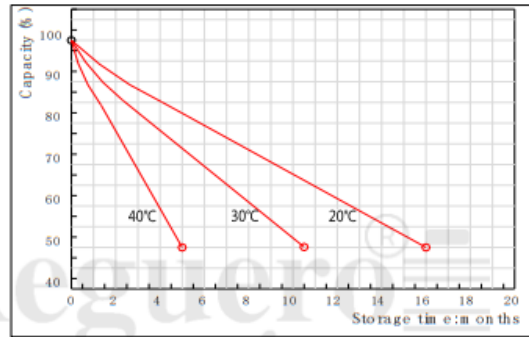
Charging Characteristics(25°C)



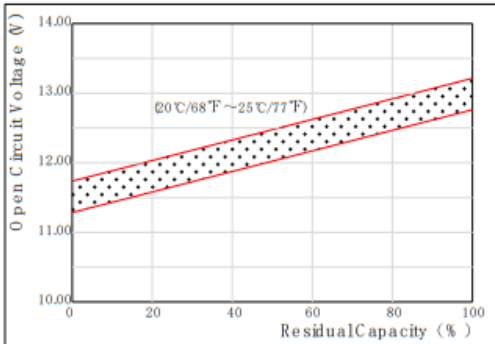
Effect of Temperature on Capacity



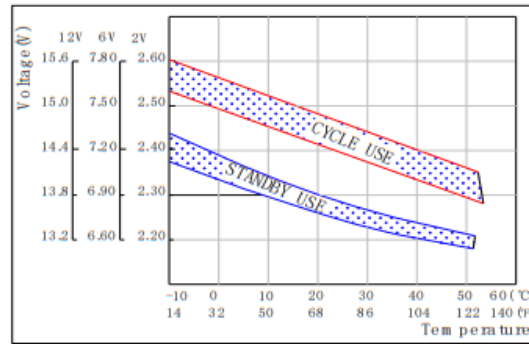
Self-discharge Characteristics



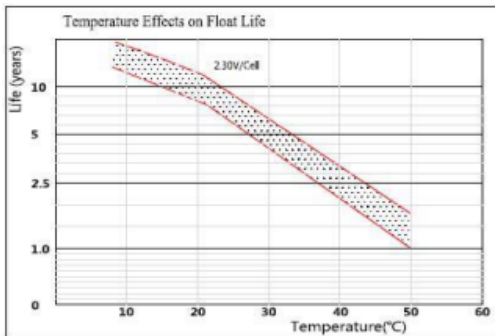
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

