

### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	1.2Ah	
Dimensions	Length	97 ± 1mm
	Width	43 ± 1mm
	Container Height	52 ± 1mm
	Total Height (with Terminal)	58 ± 1mm
Approx Weight	Approx 0.55 kg	
Terminal	T1	
Container Material	ABS	
Rated Capacity	2.30 Ah/0.115A	(20hr ,1.80V/cell,25°C)
	2.14Ah/0.214A	(10hr,1.80V/cell,25°C)
	1.93 Ah/0.386A	(5hr,1.75V/cell,25°C)
	1.69 Ah/0.563A	(3hr,1.75V/cell,25°C)
	1.40 Ah/1.40A	(1hr,1.60V/cell,25°C)
Max. Discharge Current	18.0A (5s)	
Internal Resistance	Approx 65mΩ	
Operating Temp.Range	Discharge	-15~50°C
	Charge	0~40°C
	Storage	-15~40°C
Nominal Operating Temp. Range	25±3°C	
Cycle Use	Initial Charging Current less than 0.36A.Voltage	
	14.4V~15.0V at 25°C Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	PB series batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time will be shorter	



### Applications

- ◆ All purpose
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controls system



### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1.14	0.91	0.70	0.56	0.36	0.28	0.23	0.18	0.16	0.13	0.11	0.06
1.80V/cell	1.36	1.07	0.76	0.64	0.38	0.29	0.24	0.19	0.17	0.15	0.11	0.06
1.75V/cell	1.46	1.12	0.80	0.66	0.40	0.30	0.25	0.19	0.17	0.16	0.11	0.06
1.70V/cell	1.54	1.16	0.85	0.68	0.41	0.31	0.26	0.20	0.18	0.17	0.12	0.06
1.65V/cell	1.62	1.20	0.89	0.71	0.43	0.32	0.27	0.22	0.19	0.18	0.12	0.07
1.60V/cell	1.68	1.26	0.92	0.73	0.46	0.34	0.28	0.23	0.20	0.19	0.13	0.07

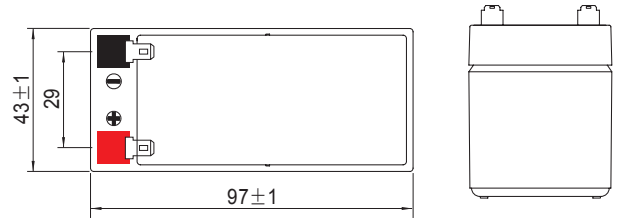
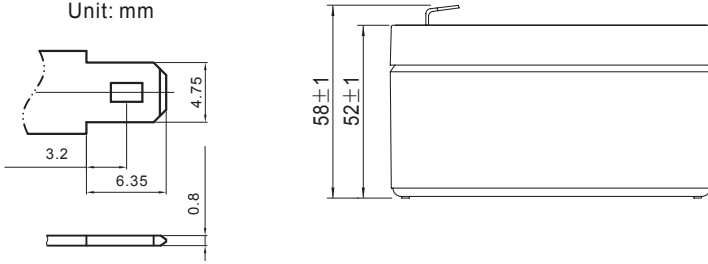
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2.11	1.69	1.29	1.04	0.67	0.51	0.42	0.33	0.29	0.24	0.20	0.11
1.80V/cell	2.44	1.92	1.36	1.14	0.69	0.52	0.43	0.33	0.30	0.27	0.20	0.11
1.75V/cell	2.56	1.95	1.41	1.16	0.69	0.53	0.44	0.34	0.30	0.27	0.20	0.11
1.70V/cell	2.61	1.98	1.45	1.16	0.69	0.53	0.44	0.35	0.31	0.30	0.20	0.11
1.65V/cell	2.67	1.98	1.47	1.17	0.71	0.53	0.45	0.36	0.31	0.30	0.20	0.11
1.60V/cell	2.69	2.02	1.48	1.17	0.73	0.54	0.45	0.36	0.32	0.31	0.21	0.11

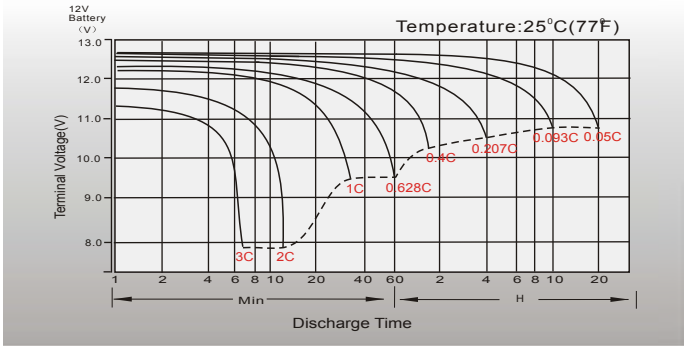
# Dimensions

## T1 Terminal

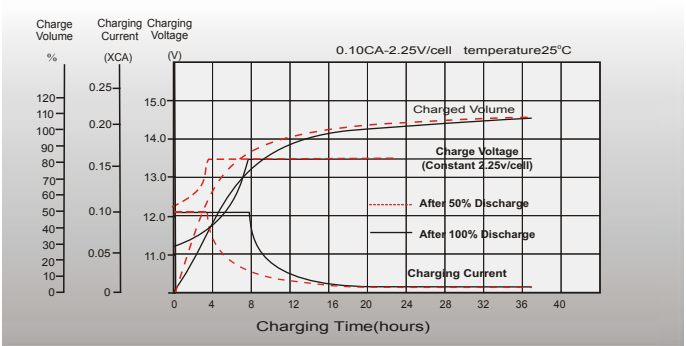
Unit: mm



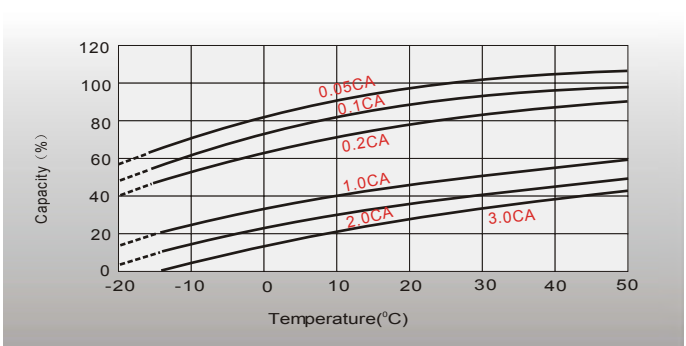
## Discharge Characteristics



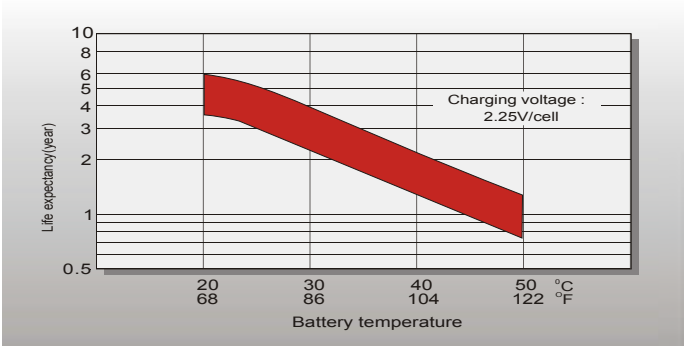
## Float Charging Characteristics



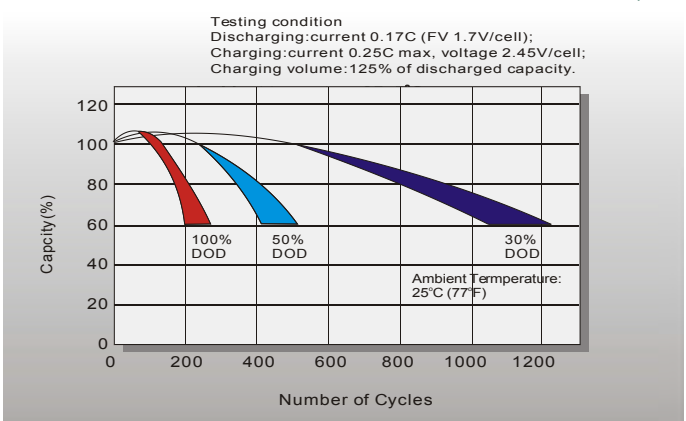
## Temperature Effects in Relation to Battery Capacity



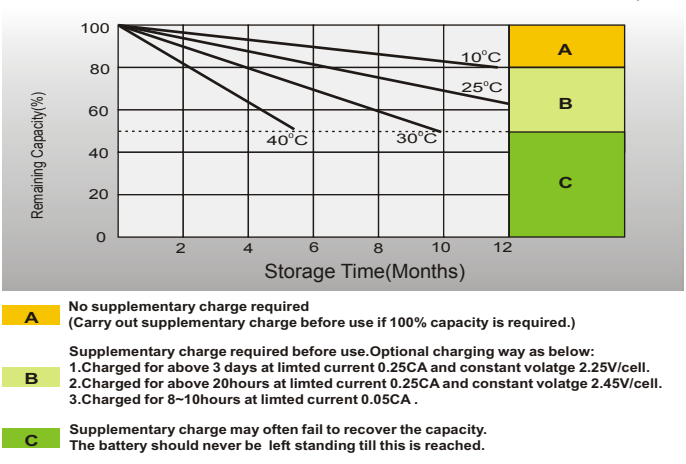
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Contact