



# BPL SERIES-Long Life Standby

## BPL2-300 (2V300AH)

### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	300.0AH	
Dimension	Length	170±2mm (6.69 inches)
	Width	150±2mm (5.91 inches)
	Container Height	328±2mm (12.91 inches)
	Total Height (with Terminal)	350±2mm (13.78 inches)
Approx Weight	Approx 18.5 Kg (40.8lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	320.0AH/16.0A	(20hr, 1.80V/cell, 25°C/77°F)
	300.0 AH/30.0A	(10hr, 1.80V/cell, 25°C/77°F)
	266.0 AH/53.2A	(5hr, 1.75V/cell, 25°C/77°F)
	231.6 AH/77.2A	(3hr, 1.75V/cell, 25°C/77°F)
	180.2 AH/180.2A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 0.9mΩ	
Operating Temp. Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 150.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use No limit on Initial Charging Current Voltage 2.35V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	BPL series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)
- ◆ EPS

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

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	301.8	271.8	225.1	180.5	150.5	93.3	71.2	58.2	49.6	43.3	34.7	28.9	15.5
1.80V/cell	343.0	302.7	241.5	189.9	157.4	97.5	74.7	60.8	51.7	45.2	36.2	30.0	16.0
1.75V/cell	376.8	326.3	255.8	199.7	164.2	101.4	77.2	62.9	53.2	46.3	36.9	30.4	16.1
1.70V/cell	402.3	349.1	268.4	207.2	169.9	105.5	79.6	64.3	54.2	47.1	37.5	30.8	16.3
1.65V/cell	423.9	366.3	281.5	216.2	176.0	108.9	81.4	65.6	55.3	47.9	38.1	31.1	16.4
1.60V/cell	444.4	379.8	291.2	222.0	180.2	111.0	82.8	66.6	56.1	48.6	38.6	31.6	16.5

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

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	571.4	517.0	430.2	347.0	291.1	181.5	139.1	114.2	97.7	85.6	68.8	57.5	30.8
1.80V/cell	641.1	569.7	457.9	362.7	302.7	188.7	145.3	118.9	101.3	89.0	71.5	59.6	31.8
1.75V/cell	694.4	607.1	481.2	379.1	314.4	195.5	149.8	122.5	104.1	90.9	72.8	60.3	31.9
1.70V/cell	733.7	644.0	500.7	390.7	323.7	202.5	153.8	124.7	105.6	92.3	74.0	61.0	32.3
1.65V/cell	763.5	668.4	521.3	405.4	333.5	208.2	156.6	126.9	107.4	93.6	74.9	61.6	32.6
1.60V/cell	787.1	685.1	533.7	412.4	338.9	210.9	158.5	128.1	108.6	94.6	75.8	62.4	32.7

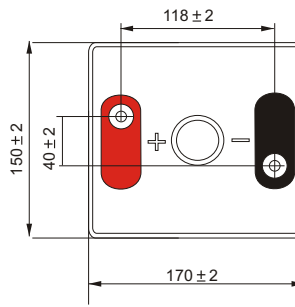
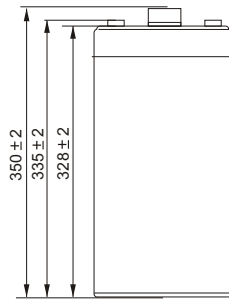
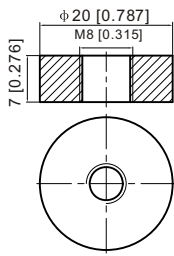
Specifications subject to change without notice.



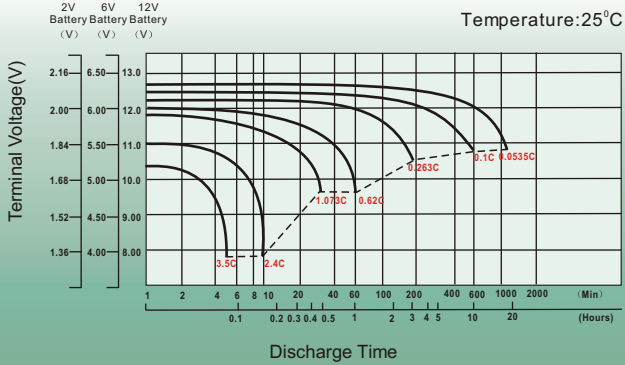
## Dimensions

### T11 Terminal

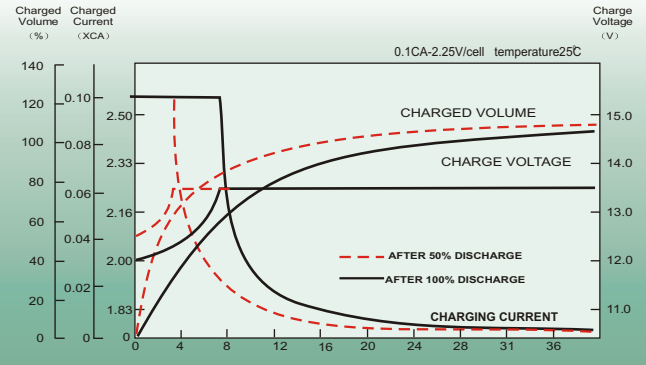
Unit: mm [inches]



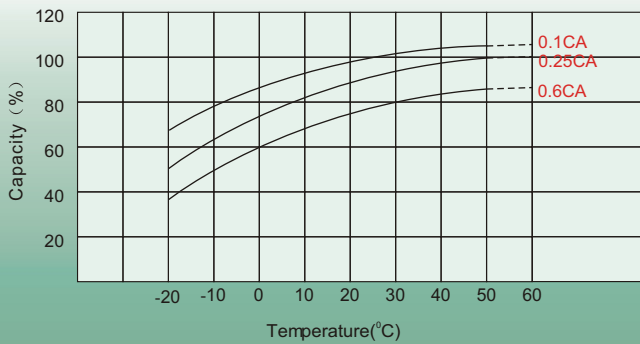
## Discharge Characteristics



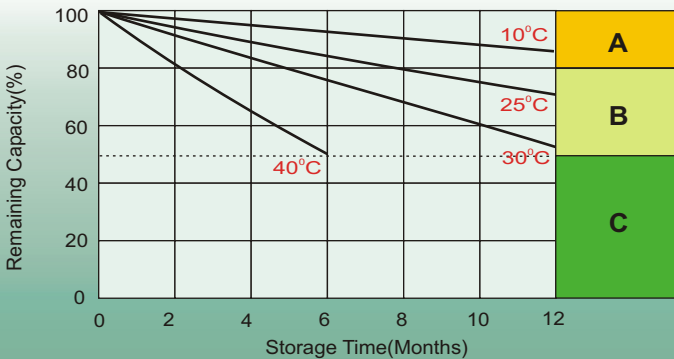
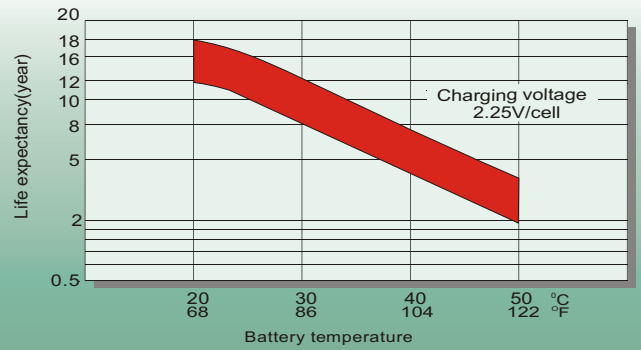
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Self Discharge Characteristics

- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
  2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
  3. Charged for 8-10hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.