



## VRLA Rechargeable Battery

# BP3.6-12 (BP3.6-12FR)

### FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- Absorbent Glass Mat technology for efficient gas recombination
- Its design life is up to 8 years in floating application

### APPLICATION

- UPS
- Emergency Lights
- Electronic Toy-Cars
- Fans
- Rechargeable Flashlights



### SPECIFICATIONS

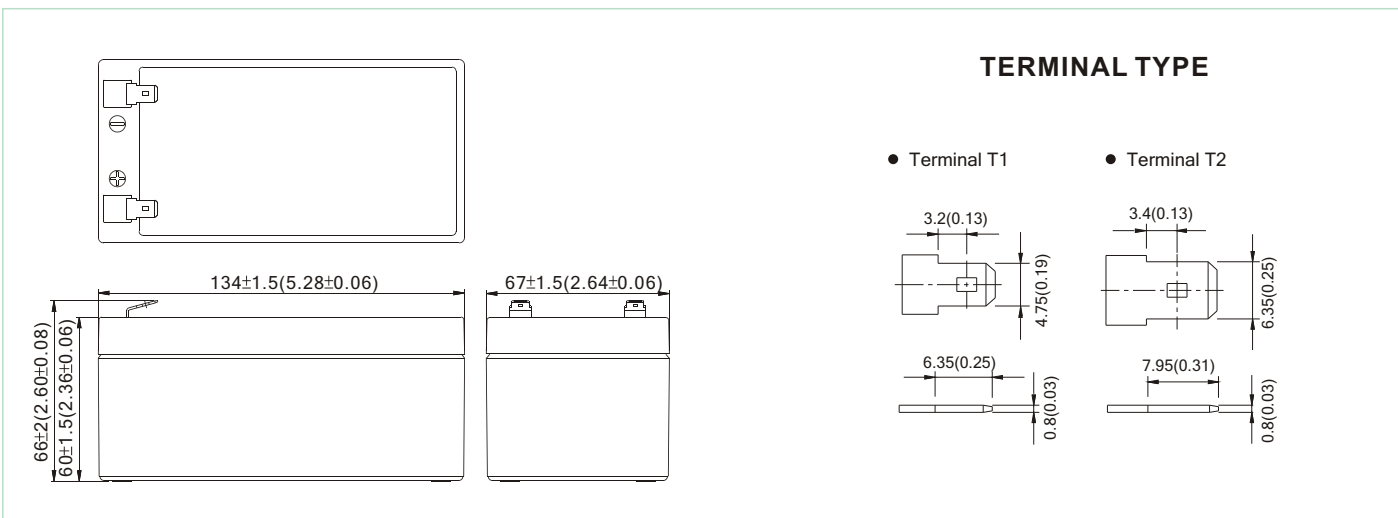
Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (180mA, 10.5V)	3.60 Ah
	10 Hour Rate (342mA, 10.5V)	3.42 Ah
	5 Hour Rate (612mA, 10.5V)	3.06 Ah
	1 Hour Rate (2160mA, 9.3V)	2.16 Ah
Approx. Weight	1320g(2.91lbs.)	
Terminals	T1 (Faston Tab 187) T2 is optional	
Max. Discharge Current	54 A (5 sec.)	
Max. Charge Current	1.08 A	
Operating Temperature Range	Charge	0°C~40°C(32°F~104°F)
	Discharge	-20°C~50°C(-4°F~122°F)
	Storage	-20°C~40°C(-4°F~104°F)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤50mΩ (Fully Charged)	

### CONTAINER MATERIAL

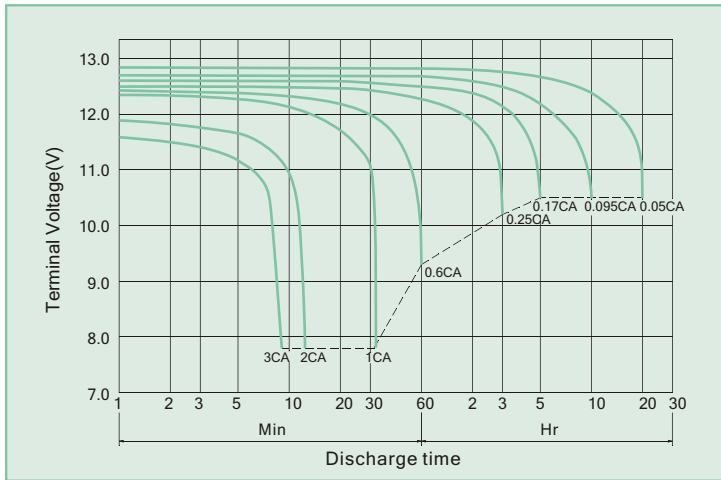
- BP3.6-12:  
ABS: UL 94-HB (Dark gray color)
- BP3.6-12FR:  
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO 14001
 MH19884 UL	 C4M20310-2474-E-16 CE
● IEC 61056-1	● JIS C 8702-1
● GB/T 19639.1	

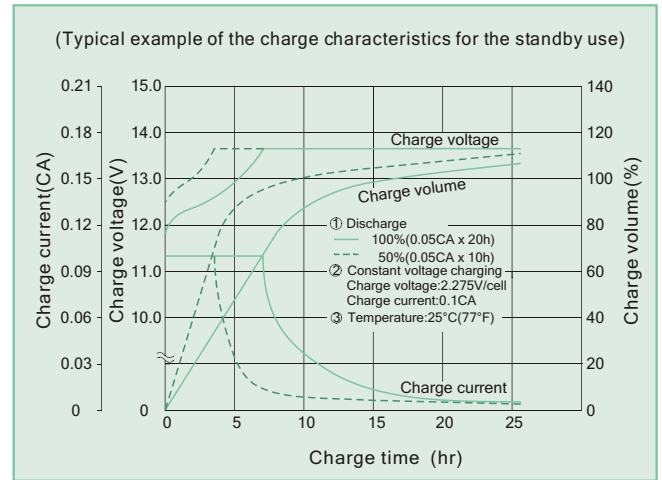
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	134±1.5(5.28±0.06)	67±1.5(2.64±0.06)	60±1.5(2.36±0.06)	66±2.0(2.60±0.08)



**BP3.6-12 (BP3.6-12FR) discharge characteristics (25°C /77°F)**



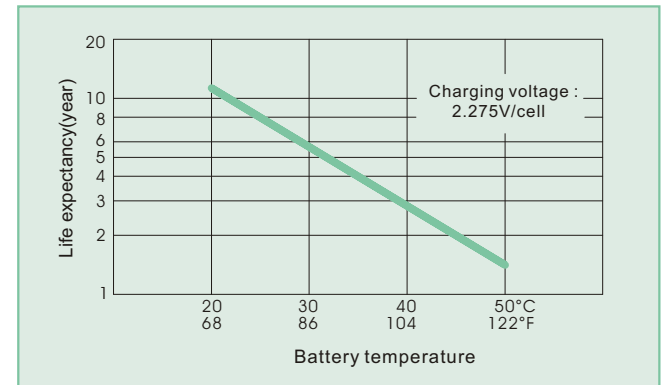
**Battery Charging Characteristics**



**Charging Procedure**

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

**Effect Of Temperature On Long Term Float Life**



**Constant power discharge characteristics at 25 °C/77 °F Unit: W**

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	130.2	95.8	76.8	45.69	26.20	10.49	7.235	4.043	2.128
1.75V	150.7	103.8	80.3	47.42	26.99	10.70	7.344	4.104	2.160
1.70V	160.1	107.5	82.8	48.51	27.47	10.80	7.384	4.124	2.174
1.65V	167.3	110.1	84.7	49.19	27.80	10.88	7.410	4.137	2.174
1.60V	172.8	112.3	86.4	49.68	28.08	10.94	7.432	4.137	2.174

**Constant current discharge characteristics at 25 °C/77 °F Unit: A**

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	11.73	8.43	6.68	3.87	2.202	0.874	0.603	0.337	0.177
1.75V	13.82	9.14	6.98	4.02	2.268	0.892	0.612	0.342	0.180
1.70V	14.68	9.47	7.20	4.11	2.309	0.900	0.615	0.344	0.181
1.65V	15.34	9.69	7.37	4.17	2.336	0.906	0.617	0.345	0.181
1.60V	15.85	9.89	7.51	4.21	2.360	0.912	0.619	0.345	0.181

All data shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

A/3 REV. Dec. 2010

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