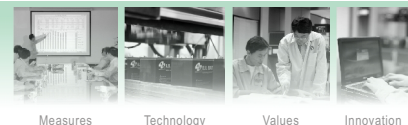




VRLA Rechargeable Battery

BP1.2-12



FEATURES

- Maintenance Free (topping up not needed)
- Non - spillable (no free electrolyte)
- Low Self Discharge, less than 3% per month
- both Vertical & Horizontal installations
- Its design life is up to 8 years in floating application

APPLICATIONS

- UPS
- Security Systems
- Medical Equipment

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (60mA, 10.5V)	1.20 Ah
	10 Hour Rate (114mA, 10.5V)	1.14 Ah
	5 Hour Rate (204mA, 10.5V)	1.02 Ah
	1 Hour Rate (720mA, 9.30V)	0.72 Ah
Approx. Weight	590g(1.30lbs.)	
Terminals	T1 (Faston Tab 187)	
Max. Discharge Current	18 A (5 sec.)	
Max. Charge Current	0.36 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	≤ 100mΩ (Fully Charged)	



CONTAINER MATERIAL

- Standard: ABS(UL 94-HB)
Model Name: BP1.2-12
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: BP1.2-12FR

Certificate as below:

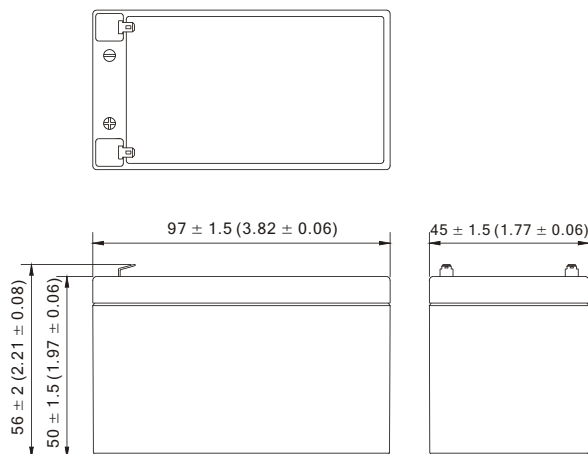


Compliance of the standards as below:

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1
- VdS G103041

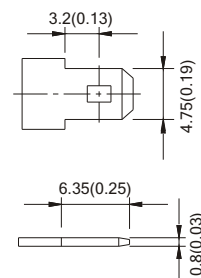
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
97±1.5(3.82±0.06)	45±1.5(1.77±0.06)	50±1.5(1.97±0.06)	56±2.0(2.21±0.08)

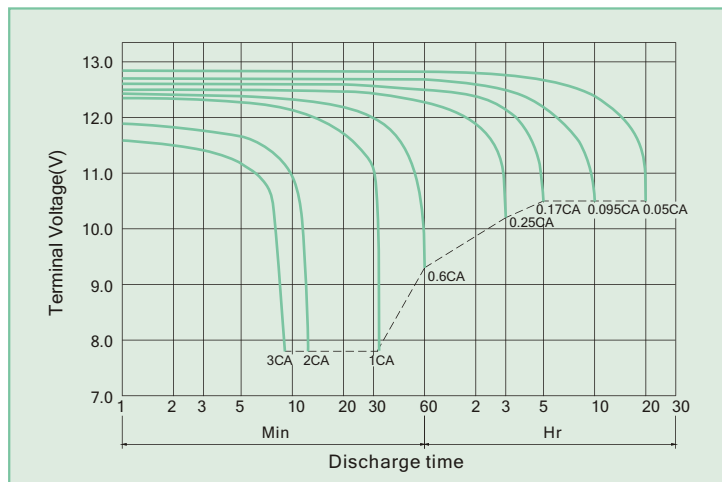


TERMINAL TYPE

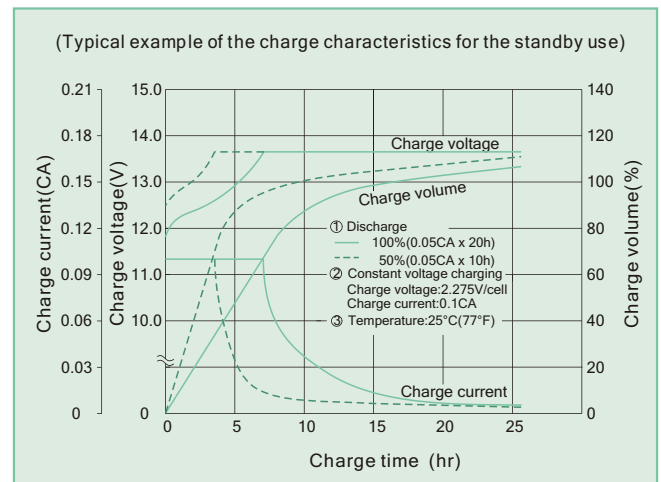
- Terminal T1



BP1.2-12 (BP1.2-12FR) discharge characteristics (25°C/77°F)



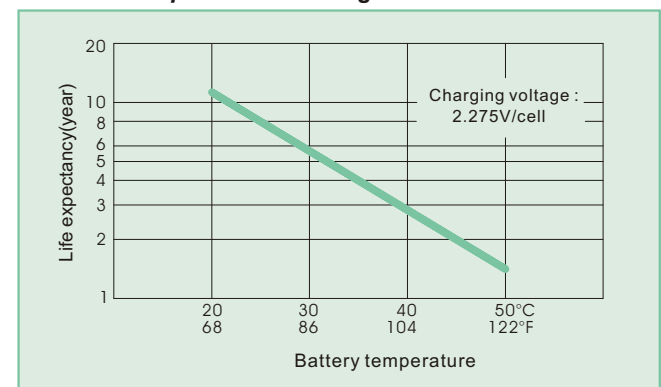
Battery Charging Characteristics



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

Discharge Time F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	43.39	31.94	25.60	15.23	8.73	3.50	2.412	1.348	0.709
10.5V	50.22	34.60	26.77	15.81	9.00	3.57	2.448	1.368	0.720
10.2V	53.36	35.85	27.60	16.17	9.16	3.60	2.461	1.375	0.720
9.9V	55.75	36.71	28.24	16.40	9.27	3.63	2.470	1.379	0.720
9.6V	57.60	37.44	28.80	16.56	9.36	3.65	2.477	1.379	0.720

Constant current discharge characteristics at 25 °C/77 °F

Unit: A

Discharge Time F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	3.91	2.81	2.23	1.291	0.734	0.291	0.201	0.112	0.059
10.5V	4.61	3.05	2.33	1.340	0.756	0.297	0.204	0.114	0.060
10.2V	4.89	3.16	2.40	1.370	0.770	0.300	0.205	0.115	0.060
9.9V	5.11	3.23	2.46	1.389	0.779	0.302	0.206	0.115	0.060
9.6V	5.28	3.30	2.50	1.403	0.787	0.304	0.206	0.115	0.060

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

For operation, please refer to the instruction from technical manual.

B/2 REV. Apr. 2021

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