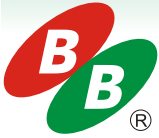




Measures Technology Values Innovation



VRLA Rechargeable Battery

BC7-12

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 5 years in floating application

APPLICATIONS

- UPS
- Laboratory Equipment
- Power Packs
- Fishing Lights



SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (350mA, 10.5V)	7.00 Ah
	10 Hour Rate (665mA, 10.5V)	6.65 Ah
	5 Hour Rate (1190mA, 10.5V)	5.95 Ah
	1 Hour Rate (4200mA, 9.30V)	4.20 Ah
Approx. Weight	2200g(4.85lbs.)	
Terminals	T2 (Faston Tab 250) T1 is optional	
Max. Discharge Current	105 A (5 sec.)	
Max. Charge Current	2.1 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	≤25mΩ (Fully Charged)	

CONTAINER MATERIAL

- Standard:ABS(UL94 HB)
Model Name: BC7-12
- Optional: Flame Retardant ABS (UL94 V-0)
Model Name: BC7-12FR

Certificate as below:



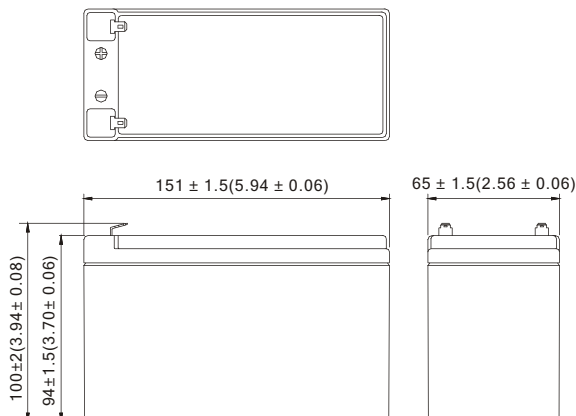
MH19884

Compliance of the standards as below:

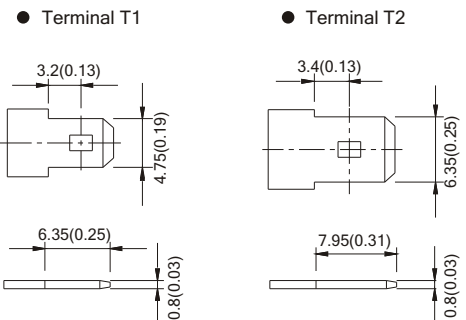
- IEC 61056
- JISC 8702
- GB/T 19639

OUTER DIMENSIONS mm(inch)

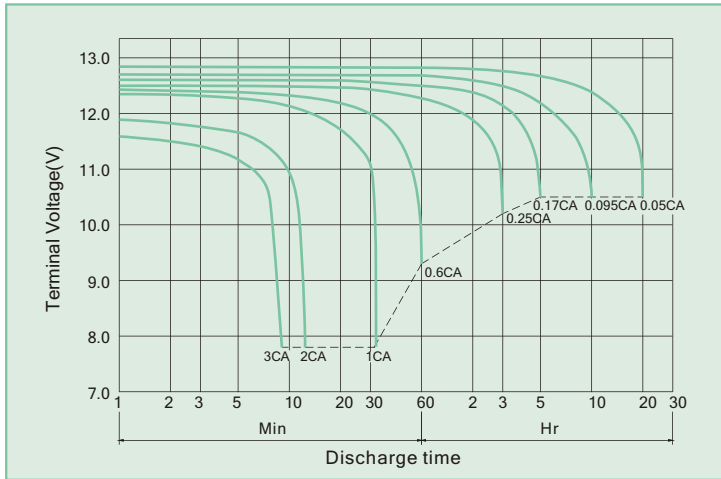
Length (L)	Width (W)	Container Height (H)	Total Height (TH)
151±1.5(5.94±0.06)	65±1.5(2.56±0.06)	94±1.5(3.70±0.06)	100±2.0(3.94±0.08)



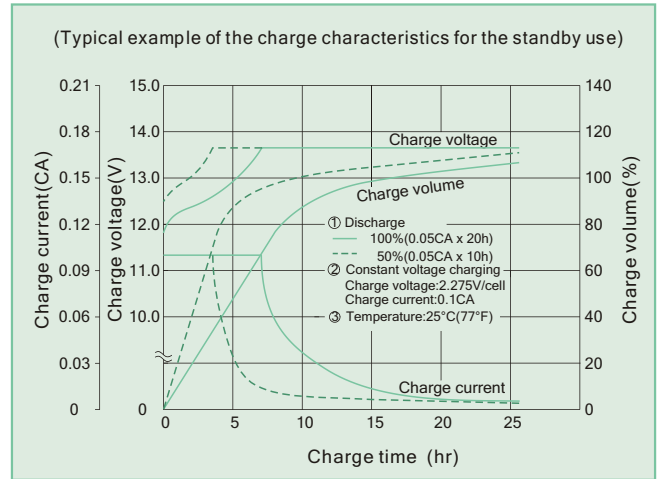
TERMINAL TYPE



BC7-12 (BC7-12FR) discharge characteristics (25°C/77°F)



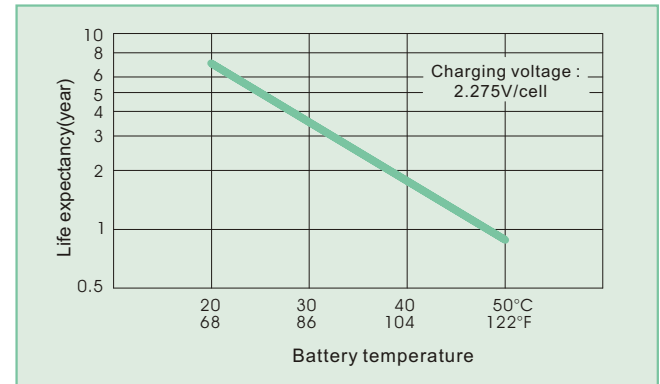
Battery Charging Characteristics



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 F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	253	186	149	88.8	50.9	20.40	14.07	7.86	4.14
10.5V	293	202	156	92.2	52.5	20.81	14.28	7.98	4.20
10.2V	311	209	161	94.3	53.4	21.00	14.36	8.02	4.22
9.9V	325	214	165	95.6	54.1	21.15	14.41	8.04	4.24
9.6V	336	218	168	96.6	54.6	21.27	14.45	8.04	4.24

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

Discharge F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	22.8	16.4	13.0	7.53	4.28	1.70	1.172	0.655	0.345
10.5V	26.9	17.8	13.6	7.81	4.41	1.73	1.190	0.665	0.350
10.2V	28.6	18.4	14.0	7.99	4.49	1.75	1.196	0.668	0.352
9.9V	29.8	18.8	14.3	8.11	4.54	1.76	1.201	0.670	0.353
9.6V	30.8	19.2	14.6	8.19	4.59	1.77	1.204	0.670	0.353

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. Jul. 2022

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