



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



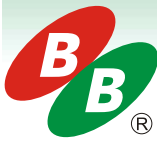
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# VRLA Rechargeable Battery

## BP40-12



### FEATURES

- Maintenance free(no water topping-up required).
- No free acid(Non-spillable battery).
- Low self-discharge rate, lower than 3% capacity loss per month.
- Can be used in any orientation(excluding used inverted).
- Absorbent Glass Mat technology for efficient gas recombination.

### APPLICATION

- UPS
- Wheelchairs
- Lawn Mowers
- Golf-Carts
- Electronic Medical Equipment



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	40Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	14300g(31.53lbs.)
Terminals	B2 (Fitting M5 bolt & nut) , I1 and I2 are optional
Internal Resistance	≤8mΩ (Fully Charged )
Max. Discharge Current	600 A (5 sec.)
Max. Charge Current	12 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)
Container Material	Standard: ABS( UL 94-HB) BP40-12 Optional: Flame Retardant ABS(UL 94-V0) BP40-12FR



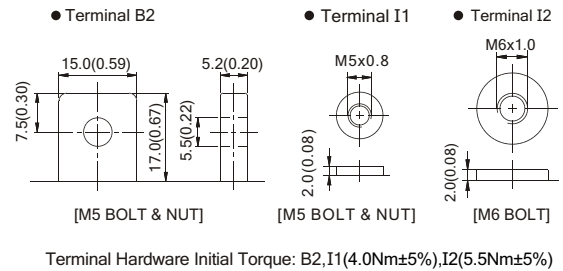
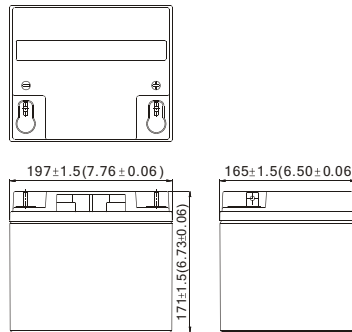
- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1
- VdS G102110

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

- **Length**  
197±1.5 (7.76±0.06)
- **Width**  
165±1.5 (6.50±0.06)
- **Container Height**  
171±1.5 (6.73±0.06)
- **Total Height**  
171±1.5 (6.73±0.06)



### Constant power discharge characteristics at 25 °C/77 °F

Unit: W

Discharge Time F.V. (V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	1280	1007	811	508	291.1	116.6	80.4	44.93	23.64
1.75V	1482	1091	848	527	299.9	118.9	81.6	45.60	24.00
1.70V	1575	1130	874	539	305.2	120.0	82.0	45.83	24.12
1.65V	1645	1157	894	547	308.9	120.8	82.3	45.96	24.19
1.60V	1700	1180	912	552	312.0	121.6	82.6	45.96	24.19

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

Unit: A

Discharge Time F.V. (V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	115	88.6	70.5	43.0	24.46	9.72	6.70	3.74	1.97
1.75V	136	96.0	73.7	44.7	25.20	9.91	6.80	3.80	2.00
1.70V	144	99.5	76.0	45.7	25.65	10.00	6.84	3.82	2.01
1.65V	151	101.8	77.7	46.3	25.96	10.07	6.86	3.83	2.02
1.60V	156	103.9	79.3	46.8	26.22	10.13	6.88	3.83	2.02

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