



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

# BPL40-12



### 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
- Electronic Medical Equipment
- Golf-Carts



### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Nominal Voltage             | 12 V   |
| Nominal Capacity            | 40Ah @ 20 hour rate F.V.(1.75V/cell)   |
| Approx. Weight              | 14.6Kg(32.19lbs.)  |
| Terminals                   | B2 (Fitting M5 bolt & nut) , I1 and I2 are optional  |
| Internal Resistance         | ≤8.0mΩ (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)<br>Discharge : -20°C~50°C(-4°F~122°F)<br>Storage. : -20°C~40°C(-4°F~104°F) |
| Container Material          | Standard: ABS( UL 94-HB) BPL40-12<br>Optional: Flame Retardant ABS(UL 94-V0) BPL40-12FR                  |

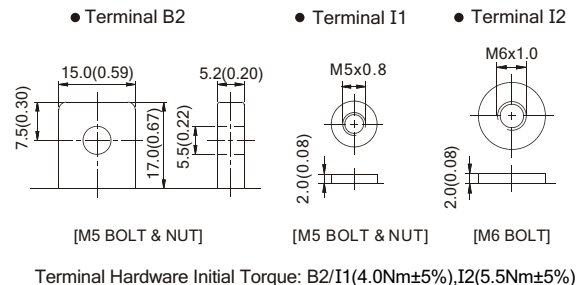
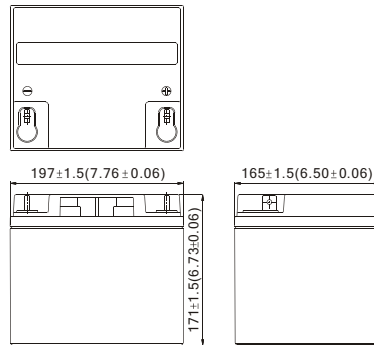
- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

### 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<br>F.V.<br>(V/cell) | 5 Min  | 10 Min | 15 Min | 30 Min | 1 Hr  | 3 Hr  | 5 Hr | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|--------|--------|-------|-------|------|-------|-------|
| 1.80V                              | 1303.0 | 979.4  | 793.1  | 477.1  | 276.6 | 116.6 | 80.6 | 44.91 | 23.49 |
| 1.75V                              | 1509.0 | 1061.1 | 830.3  | 495.4  | 284.6 | 118.9 | 81.7 | 45.60 | 24.00 |
| 1.70V                              | 1600.0 | 1099.4 | 855.4  | 506.3  | 289.7 | 120.0 | 82.3 | 45.83 | 24.11 |
| 1.65V                              | 1674.0 | 1125.7 | 875.4  | 513.7  | 293.7 | 121.1 | 82.9 | 45.94 | 24.17 |
| 1.60V                              | 1726.0 | 1148.0 | 892.6  | 518.9  | 296.6 | 121.7 | 82.9 | 45.94 | 24.17 |

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

| Discharge Time<br>F.V.<br>(V/cell) | 5 Min  | 10 Min | 15 Min | 30 Min | 1 Hr  | 3 Hr  | 5 Hr | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|--------|--------|-------|-------|------|-------|-------|
| 1.80V                              | 117.39 | 86.21  | 68.97  | 40.43  | 23.24 | 9.72  | 6.72 | 3.74  | 1.96  |
| 1.75V                              | 138.44 | 93.41  | 72.20  | 41.98  | 23.92 | 9.91  | 6.81 | 3.80  | 2.00  |
| 1.70V                              | 146.79 | 96.78  | 74.38  | 42.91  | 24.34 | 10.00 | 6.86 | 3.82  | 2.01  |
| 1.65V                              | 153.58 | 99.09  | 76.12  | 43.53  | 24.68 | 10.09 | 6.91 | 3.83  | 2.01  |
| 1.60V                              | 158.35 | 101.06 | 77.62  | 43.97  | 24.92 | 10.14 | 6.91 | 3.83  | 2.01  |

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