



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# VRLA Rechargeable Battery

## BP20-12



### 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
- Fishing Lights
- Emergency Lights
- Lawn Mowers
- Video Camcorders(VCR)



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	20.0Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	6350g(14.0lbs.)
Terminals	B1 (Fitting M5 bolt & nut) , T2 and I1 are optional
Internal Resistance	≤11m Ω (Fully Charged)
Max. Discharge Current	300 A (5 sec.)
Max. Charge Current	6.0 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) BP20-12 Optional: Flame Retardant ABS(UL 94-V0) BP20-12FR



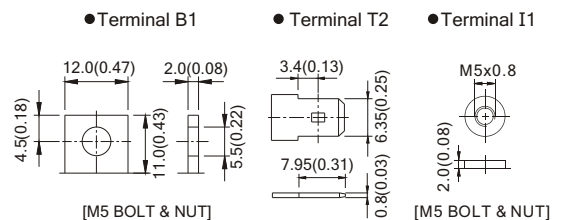
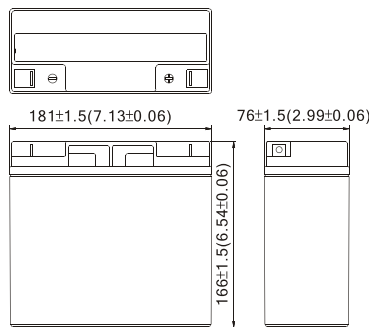
- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

- **Length**  
181±1.5 (7.13±0.06)
- **Width**  
76±1.5 (2.99±0.06)
- **Container Height**  
166±1.5 (6.54±0.06)
- **Total Height**  
166±1.5 (6.54±0.06)



Terminal Hardware Initial Torque: B1(2.5Nm±5%),I1(4.0Nm±5%)

### 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	723	532	427	254	145.5	58.3	40.2	22.46	11.82
1.75V	837	577	446	263	149.9	59.5	40.8	22.80	12.00
1.70V	889	597	460	270	152.7	60.0	41.0	22.91	12.06
1.65V	929	612	471	273	154.5	60.4	41.2	22.98	12.10
1.60V	960	624	480	276	156.0	60.8	41.3	22.98	12.10

### 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	65.14	46.86	37.10	21.51	12.23	4.858	3.350	1.872	0.985
1.75V	76.78	50.77	38.80	22.30	12.60	4.955	3.400	1.900	1.000
1.70V	81.58	52.59	40.00	22.84	12.83	5.000	3.419	1.909	1.005
1.65V	85.25	53.85	40.92	23.16	12.98	5.035	3.431	1.915	1.008
1.60V	88.07	54.93	41.74	23.39	13.11	5.065	3.441	1.915	1.008

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