



# VRLA Rechargeable Battery

## BP20-12



### FEATURES

- Maintenance Free (topping up not needed)
- Non-spillable (no free electrolyte)
- Low Self Discharge, less than 3% per month
- both Vertical & Horizontal installations

### APPLICATIONS

- UPS
- Switch Boards
- Security Systems
- Medical Equipment
- Laboratory Equipment
- Emergency Lighting



### 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



MH19884

- 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

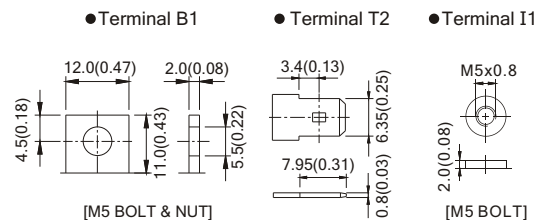
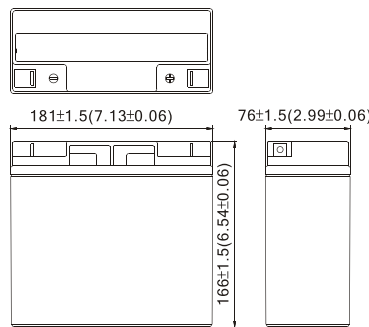
76±1.5 (2.99±0.06)

#### 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 F.V.	Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V		723	532	427	254	145.5	58.3	40.2	22.46	11.82
10.5V		837	577	446	263	149.9	59.5	40.8	22.80	12.00
10.2V		889	597	460	270	152.7	60.0	41.0	22.91	12.06
9.9V		929	612	471	273	154.5	60.4	41.2	22.98	12.10
9.6V		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 F.V.	Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V		65.14	46.86	37.10	21.51	12.23	4.858	3.350	1.872	0.985
10.5V		76.78	50.77	38.80	22.30	12.60	4.955	3.400	1.900	1.000
10.2V		81.58	52.59	40.00	22.84	12.83	5.000	3.419	1.909	1.005
9.9V		85.25	53.85	40.92	23.16	12.98	5.035	3.431	1.915	1.008
9.6V		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.

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

A/5 REV. Aug. 2017

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