

## VRLA Rechargeable Battery

# BP40-12 (BP40-12FR)



### 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).

### 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	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	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001



ISO14001



UL



CE



- IEC61056
- JIS C 8702
- GB/T 19639
- VdS G102110

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

#### Length

197±1.5 (7.76±0.06)

#### Width

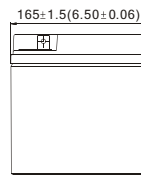
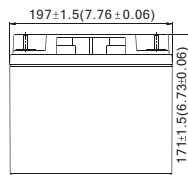
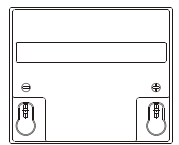
165±1.5 (6.50±0.06)

#### Container Height

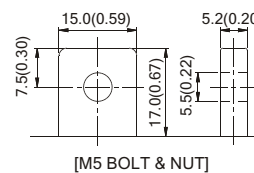
171±1.5 (6.73±0.06)

#### Total Height

171±1.5 (6.73±0.06)

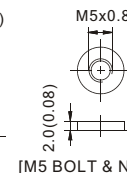


#### Terminal B2



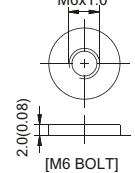
[M5 BOLT & NUT]

#### Terminal I1



[M5 BOLT & NUT]

#### Terminal I2



[M6 BOLT]

Terminal Hardware Initial Torque: B2,I1(4.0Nm±5%),I2(5.5Nm±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	1446	1065	853	508	291.1	116.6	80.4	44.93	23.64
1.75V	1674	1153	892	527	299.9	118.9	81.6	45.60	24.00
1.70V	1779	1195	920	539	305.2	120.0	82.0	45.83	24.12
1.65V	1858	1224	941	547	308.9	120.8	82.3	45.96	24.19
1.60V	1920	1248	960	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	130.3	93.7	74.2	43.0	24.46	9.72	6.70	3.74	1.97
1.75V	153.6	101.5	77.6	44.7	25.20	9.91	6.80	3.80	2.00
1.70V	163.2	105.2	80.0	45.7	25.65	10.00	6.84	3.82	2.01
1.65V	170.5	107.7	81.8	46.3	25.96	10.07	6.86	3.83	2.02
1.60V	176.1	109.9	83.5	46.8	26.22	10.13	6.88	3.83	2.02

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