

## Excellent Integrated System Limited

Stocking Distributor

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[B B Battery](#)  
[BP33-6-B1](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



## VRLA Rechargeable Battery

# BP33-6

### 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
- Lighting



### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Nominal Voltage             | 6 V  |
| Nominal Capacity            | 33Ah @ 20 hour rate F.V.(1.75V/cell)   |
| Approx. Weight              | 6000g(13.23lbs.)   |
| Terminals                   | B1 (Fitting M5 bolt & nut) T2 is optional  |
| Internal Resistance         | ≤4.5mΩ (Fully Charged)   |
| Max. Discharge Current      | 255 A (5 sec.)   |
| Max. Charge Current         | 9.9 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) BP33-6<br>Optional: Flame Retardant ABS(UL 94-V0) BP33-6FR                      |

● 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 B1: 12.0(0.47) x 2.0(0.08) x 5.0(0.20) x 1.0(0.43) x 5.5(0.22) [M5 BOLT & NUT]  
 ● Terminal T2: 3.4(0.13) x 6.35(0.25) x 7.95(0.31) x 0.8(0.03)

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

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

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr  | 3 Hr | 5 Hr  | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|-------|------|-------|-------|-------|
| 1.80V                          | 596.6 | 439.2  | 351.9  | 209.4  | 120.1 | 48.1 | 33.16 | 18.53 | 9.75  |
| 1.75V                          | 690.5 | 475.8  | 368.1  | 217.3  | 123.7 | 49.1 | 33.66 | 18.81 | 9.90  |
| 1.70V                          | 733.6 | 492.9  | 379.5  | 222.3  | 125.9 | 49.5 | 33.84 | 18.90 | 9.95  |
| 1.65V                          | 766.6 | 504.7  | 388.2  | 225.4  | 127.4 | 49.8 | 33.96 | 18.96 | 9.98  |
| 1.60V                          | 792.0 | 514.8  | 396.0  | 227.7  | 128.7 | 50.1 | 34.06 | 18.96 | 9.98  |

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

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr  | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|------|------|-------|-------|-------|
| 1.80V                          | 107.5 | 77.3   | 61.2   | 35.5   | 20.2 | 8.02 | 5.527 | 3.089 | 1.625 |
| 1.75V                          | 126.7 | 83.8   | 64.0   | 36.8   | 20.8 | 8.18 | 5.610 | 3.135 | 1.650 |
| 1.70V                          | 134.6 | 86.8   | 66.0   | 37.7   | 21.2 | 8.25 | 5.641 | 3.151 | 1.658 |
| 1.65V                          | 140.7 | 88.9   | 67.5   | 38.2   | 21.4 | 8.31 | 5.660 | 3.160 | 1.663 |
| 1.60V                          | 145.3 | 90.6   | 68.9   | 38.6   | 21.6 | 8.36 | 5.677 | 3.160 | 1.663 |

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