

### Specifications

|                                  |   |                               |
|----------------------------------|---|-------------------------------|
| Nominal Voltage                  | 12V   |                               |
| Nominal Capacity (20HR)          | 2.9AH   |                               |
| Dimension                        | Length  | 178mm (7.00 inches)           |
|                                  | Width   | 35mm (1.38 inches)            |
|                                  | Height  | 60mm (2.36 inches)            |
|                                  | Total Height (with Terminal)  | 66mm (2.60 inches)            |
|                                  | Approximate Weight  | 1.05 kg (2.31 lbs)            |
| Battery Type                     | Valve Regulated Lead-Acid Battery, AGM Design   |                               |
| Terminal Type                    | T1  |                               |
| Rated Capacity                   | 2.92AH  | (20hr, 1.75V/cell, 25°C/77°F) |
|                                  | 2.77AH  | (10hr, 1.75V/cell, 25°C/77°F) |
|                                  | 2.47AH  | (5hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 2.46AH  | (3hr, 1.60V/cell, 25°C/77°F)  |
|                                  | 1.82AH  | (1hr, 1.60V/cell, 25°C/77°F)  |
| Max. Discharge Current           | 43.5A   |                               |
| Internal Resistance              | 55mΩ  |                               |
| Operating Temp. Range            | Discharge:  | -20°C (-4°F)~50°C (122°F)     |
|                                  | Charge:   | -20°C (-4°F)~50°C (122°F)     |
|                                  | Storage:  | -20°C (-4°F)~40°C (104°F)     |
| Nominal Operating Temp. Range    | 25±3°C (77±5°F)   |                               |
| Container Material               | ABS (Option: 94-HB & 94-V0 flame retardant case)  |                               |
| Capacity affected by Temperature | 40°C (104°F)  | 103%                          |
|                                  | 25°C (77°F)   | 100%                          |
|                                  | 0°C (32°F)  | 86%                           |
| Self Discharge                   | The CB Range of batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter. |                               |



### Applications

- Uninterruptible Power Supply (UPS)
- Electric wheelchairs, scooters, bikes
- Electronic apparatus and equipment
- Alarm and security systems
- Emergency first responder equipment
- Emergency lighting
- Medical devices
- Electric carts
- Telecom equipment
- Switchgear
- Solar power systems



### Constant Current Discharge (Amperes Per Battery) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h    | 8h    | 10h   | 20h   |
|--------------------------------|------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| 1.60V                          | 11.2 | 7.60  | 5.63  | 3.34  | 1.82 | 1.06 | 0.82 | 0.537 | 0.351 | 0.291 | 0.152 |
| 1.65V                          | 10.2 | 7.00  | 5.26  | 3.16  | 1.80 | 1.02 | 0.79 | 0.519 | 0.348 | 0.288 | 0.151 |
| 1.70V                          | 9.20 | 6.49  | 4.95  | 2.99  | 1.76 | 1.00 | 0.76 | 0.505 | 0.343 | 0.282 | 0.149 |
| 1.75V                          | 8.36 | 5.95  | 4.64  | 2.88  | 1.71 | 0.98 | 0.74 | 0.493 | 0.338 | 0.277 | 0.146 |
| 1.80V                          | 7.41 | 5.42  | 4.24  | 2.77  | 1.63 | 0.94 | 0.73 | 0.480 | 0.332 | 0.270 | 0.145 |
| 1.85V                          | 5.52 | 4.42  | 3.51  | 2.35  | 1.46 | 0.86 | 0.67 | 0.447 | 0.313 | 0.262 | 0.144 |

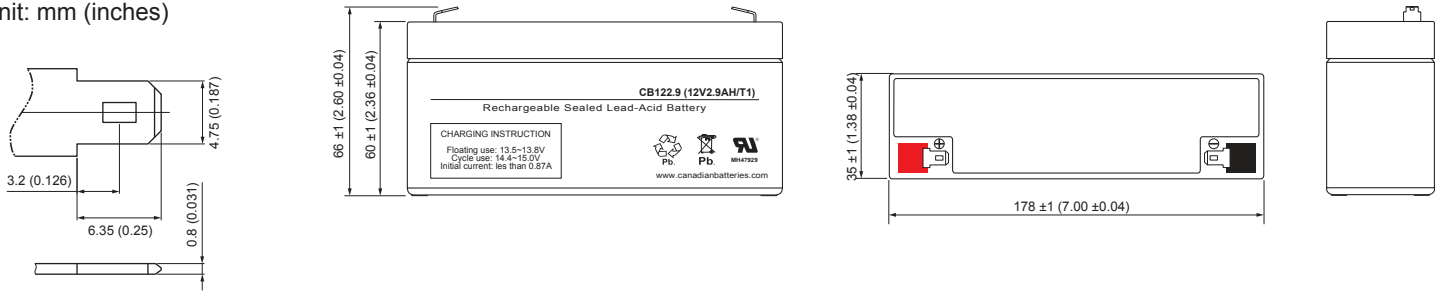
### Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h    | 8h    | 10h   | 20h   |
|--------------------------------|------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| 1.60V                          | 18.6 | 12.9  | 9.85  | 6.08  | 3.42 | 2.01 | 1.56 | 1.034 | 0.686 | 0.573 | 0.299 |
| 1.65V                          | 17.2 | 12.2  | 9.36  | 5.80  | 3.41 | 1.94 | 1.52 | 1.005 | 0.681 | 0.568 | 0.298 |
| 1.70V                          | 15.8 | 11.4  | 8.87  | 5.54  | 3.36 | 1.92 | 1.46 | 0.981 | 0.672 | 0.557 | 0.294 |
| 1.75V                          | 14.8 | 10.7  | 8.43  | 5.36  | 3.26 | 1.88 | 1.43 | 0.959 | 0.664 | 0.547 | 0.289 |
| 1.80V                          | 13.4 | 9.89  | 7.81  | 5.20  | 3.13 | 1.82 | 1.41 | 0.937 | 0.654 | 0.533 | 0.287 |
| 1.85V                          | 10.1 | 7.83  | 6.56  | 4.48  | 2.81 | 1.67 | 1.32 | 0.877 | 0.618 | 0.518 | 0.284 |

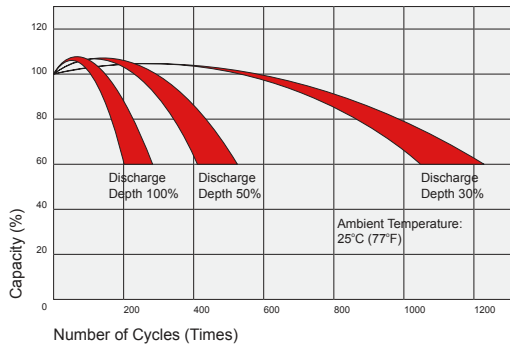
## Dimensions

### T1 Terminal

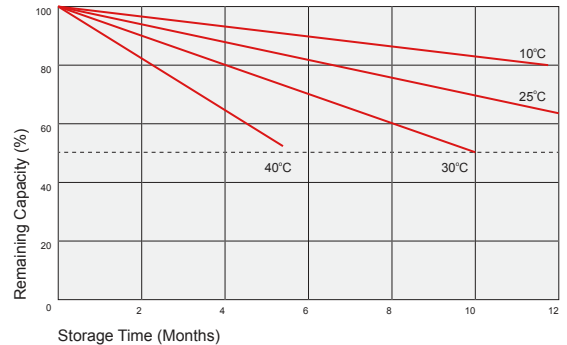
Unit: mm (inches)



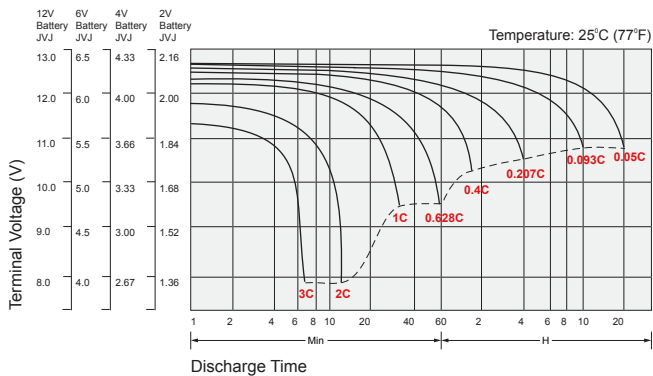
## Cycle Service Life



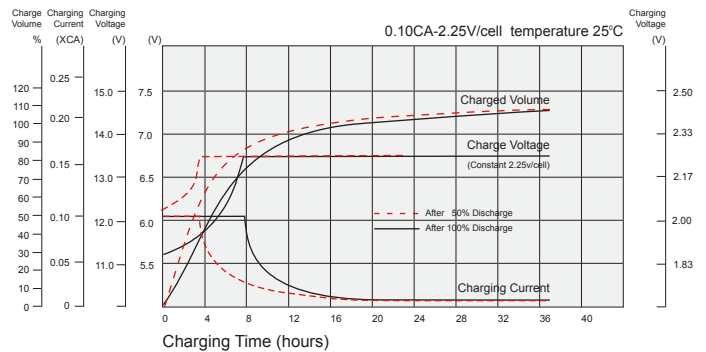
## Self Discharge Characteristics



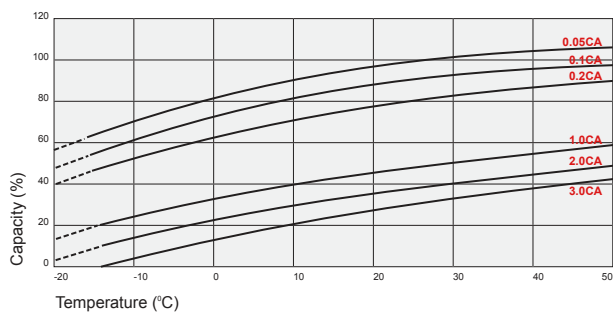
## Discharge Characteristics



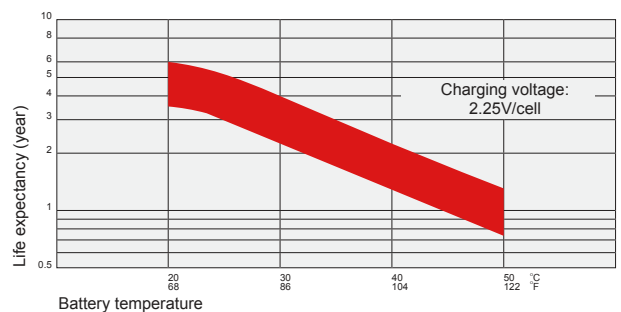
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Temperature Effects on Long Term Float Life



## Contact Information

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