

### Specification

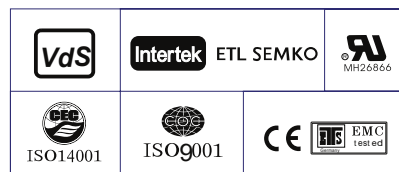
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|                               |                                                                                                                                                                          |                          |       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|
| Nominal Voltage               | 12V                                                                                                                                                                      |                          |       |
| Nominal Capacity(20HR)        | 2.9Ah                                                                                                                                                                    |                          |       |
| Dimensions                    | Length                                                                                                                                                                   | 79mm                     | (3.11 |
|                               | Width                                                                                                                                                                    | inches) 55.5mm           | (2.19 |
|                               | Container Height                                                                                                                                                         | inches) 98.5mm           | (3.88 |
|                               | Total Height (with Terminal)                                                                                                                                             | inches) 104mm            | (4.09 |
| Approx Weight                 | Approx 1.05 kg (2.31lbs)                                                                                                                                                 | inches)                  |       |
| Terminal                      | F1                                                                                                                                                                       |                          |       |
| Container Material            | ABS                                                                                                                                                                      |                          |       |
| Rated Capacity                | 2.9Ah / 0.145 A                                                                                                                                                          | (20hr, 10.5V, 25°C/77°F) |       |
|                               | 2.6 Ah / 0.26A                                                                                                                                                           | (10hr, 10.5V, 25°C/77°F) |       |
|                               | 2.55 Ah / 0.51A                                                                                                                                                          | (5hr, 10.5V, 25°C/77°F)  |       |
|                               | 2.2 Ah / 2.20A                                                                                                                                                           | (1hr, 9.6V, 25°C/77°F)   |       |
| Max. Discharge Current        | 43.5A (5s)(25°C/77°F)                                                                                                                                                    |                          |       |
| Internal Resistance           | Fully charged battery(25°C/77°F)Approx 50mΩ                                                                                                                              |                          |       |
| Operating Temp.Range          | Discharge : -20~60°C (-4~140°F)                                                                                                                                          |                          |       |
|                               | Charge : -10~60°C (14~140°F)                                                                                                                                             |                          |       |
|                               | Storage : -20~60°C (-4~140°F)                                                                                                                                            |                          |       |
| Nominal Operating Temp. Range | 25±3°C (77±5°F )                                                                                                                                                         |                          |       |
| Cycle Use                     | Initial Charging Current less than 1.16A.Voltage<br>14.4V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C                                                                  |                          |       |
| Standby Use                   | No limit on Initial Charging Current Voltage<br>13.4V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C                                                                      |                          |       |
| Self Discharge                | CT series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time intervall will be shorter. |                          |       |



### Applications

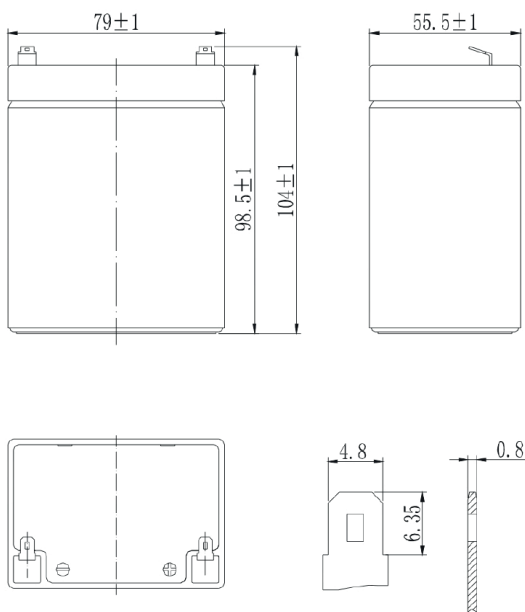
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



### Dimensions

#### F1 Terminal

Unit: mm



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

| F.V/Time   | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h   |
|------------|------|-------|-------|-------|------|------|------|------|-------|
| 1.60V/cell | 13.8 | 9.00  | 7.13  | 4.20  | 2.20 | 0.85 | 0.55 | 0.29 | 0.160 |
| 1.65V/cell | 13.1 | 8.57  | 6.82  | 4.04  | 2.12 | 0.82 | 0.54 | 0.28 | 0.150 |
| 1.70V/cell | 12.3 | 8.12  | 6.48  | 3.86  | 2.04 | 0.79 | 0.52 | 0.27 | 0.150 |
| 1.75V/cell | 11.6 | 7.67  | 6.15  | 3.67  | 1.95 | 0.77 | 0.51 | 0.26 | 0.145 |
| 1.80V/cell | 10.9 | 7.22  | 5.81  | 3.48  | 1.85 | 0.73 | 0.49 | 0.26 | 0.140 |

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time   | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h  | 3h   | 5h   |
|------------|-------|-------|-------|-------|-------|------|-----|------|------|
| 1.60V/cell | 26.46 | 17.15 | 13.72 | 8.15  | ...   | 4.28 | ... | 1.66 | 1.05 |
| 1.65V/cell | 25.28 | 16.46 | 13.23 | 7.88  | ...   | 4.15 | ... | 1.62 | 1.04 |
| 1.70V/cell | 23.91 | 15.68 | 12.64 | 7.58  | ...   | 4.01 | ... | 1.57 | 1.02 |
| 1.75V/cell | 22.64 | 14.90 | 12.05 | 7.26  | ...   | 3.86 | ... | 1.52 | 0.99 |
| 1.80V/cell | 21.36 | 14.01 | 11.47 | 6.91  | ....  | 3.68 | ... | 1.46 | 0.96 |

