

## CTA Series

### Front Terminal Battery

The new LUXURY CTA series of VRLA batteries has been specially designed for use in telecom systems.

You can expect our batteries meet with the standards JIS C8707, DIN, IEC60896-2 & BS6290-4. We have obtained ISO9001, ISO14001 certification. We have obtained UL approval (MH25860) for all types of batteries. We have obtained CE approval for all type of batteries. All these render our batteries to be compatible with requirements of world-level equipments.

With front access terminals, it's easy for installing and taking voltage readings during service.

The battery container and cover, made from V0 class flame retardant ABS & with thick walls, offer the battery with high mechanical strength and safety service features.

## CTA12-125X 12V 125Ah

(Edition Jan 2014)

### General Features

- Thick pasted plates with high quality lead-tin-calcium alloy grids for long service life;
- V0 class ABS container and cover, in accordance with flame retardancy standard IEC 707 FV0 for safety operation;
- Centralized venting system for gas ventilation;
- Plastics or rope handles for handling and installation convenience;
- Robust stainless steel stud terminals providing high conductivity, easy connection;
- Design life 12+ years



### Dimensions and Weight

|                | <i>SI Units</i> | <i>English Units</i> |
|----------------|-----------------|----------------------|
| Length         | 548mm           | 22.1inch             |
| Width          | 105mm           | 4.13inch             |
| Height         | 316mm           | 12.4inch             |
| Total Height   | 316mm           | 12.4inch             |
| Approx. Weight | 51.0Kg          | 112lbs               |

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
  - 10 hour rate (12.5A, 10.8V) 125Ah
  - 5 hour rate (23.4A, 10.5V) 117Ah
  - 1 hour rate (89.4A, 9.60V) 89.4Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) ≤ 4.5mOhms
- Self-Discharge
  - 3% of capacity declined per month at 20°C(average)
- Operating Temperature Range
  - Discharge -20~60°C
  - Charge -10~60°C
  - Storage -20~60°C
- Max. Discharge Current 68°F(20°C) 1250A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)
  - Cycle use 2.40-2.45VPC
  - Maximum charging current 30% of rated capacity
  - Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC
  - Temperature compensation -20mV/°C

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### Discharge Data

| Constant Current Discharge Dates(Amperes at 20℃) |       |       |       |       |       |       |       |       |       |       |      |       |      |       |      |       |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|
| End Voltage<br>Volts/Cell                        | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 60min | 1.25h | 1.5h | 1.75h | 2h   | 2.25h | 2.5h | 2.75h | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 24h  |
| 1.60                                             | 214   | 182   | 158   | 140   | 126   | 114   | 105   | 96.6  | 89.4  | 74.0  | 63.0 | 55.3  | 49.9 | 45.3  | 41.9 | 38.7  | 36.6 | 29.6 | 25.1 | 21.2 | 18.3 | 16.2 | 14.6 | 13.2 | 11.4 | 5.95 |
| 1.65                                             | 202   | 172   | 152   | 133   | 120   | 109   | 99.5  | 93    | 87.5  | 72.0  | 61.8 | 54.2  | 48.8 | 44.4  | 41.0 | 37.9  | 35.9 | 29.0 | 24.6 | 20.8 | 18.0 | 15.9 | 14.3 | 13.1 | 11.3 | 5.90 |
| 1.70                                             | 192   | 164   | 145   | 129   | 116   | 105   | 97.7  | 91.1  | 85.8  | 69.9  | 60.4 | 53.1  | 47.8 | 43.4  | 40.1 | 37.0  | 35.0 | 28.3 | 24.0 | 20.3 | 17.7 | 15.7 | 14.1 | 12.9 | 11.2 | 5.84 |
| 1.75                                             | 181   | 156   | 139   | 124   | 112   | 103   | 94.8  | 88.1  | 82.6  | 67.9  | 59.1 | 51.9  | 46.8 | 42.5  | 39.3 | 36.2  | 34.3 | 27.8 | 23.4 | 19.9 | 17.3 | 15.4 | 13.9 | 12.8 | 11.0 | 5.79 |
| 1.80                                             | 173   | 151   | 135   | 121   | 109   | 100   | 92.5  | 85.9  | 80.3  | 65.8  | 58.0 | 50.8  | 45.8 | 41.5  | 38.5 | 35.3  | 33.6 | 27.3 | 22.9 | 19.4 | 16.9 | 15.1 | 13.7 | 12.5 | 10.8 | 5.68 |

| Constant Power Discharge Dates(Watts Per Cell at 20℃ ) |       |       |       |       |       |       |       |       |       |       |      |       |      |       |      |       |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|
| End Voltage<br>Volts/Cell                              | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 60min | 1.25h | 1.5h | 1.75h | 2h   | 2.25h | 2.5h | 2.75h | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 24h  |
| 1.60                                                   | 356   | 302   | 267   | 238   | 217   | 199   | 184   | 179   | 166   | 137   | 117  | 102   | 92.7 | 84.2  | 78.3 | 72.5  | 68.8 | 55.8 | 47.9 | 40.7 | 35.0 | 31.4 | 28.1 | 25.5 | 21.9 | 11.2 |
| 1.65                                                   | 338   | 293   | 258   | 231   | 210   | 190   | 177   | 173   | 161   | 134   | 115  | 100   | 89.9 | 82.7  | 76.6 | 71.3  | 67.8 | 55.0 | 47.1 | 39.9 | 34.4 | 31.0 | 27.9 | 25.3 | 21.8 | 11.2 |
| 1.70                                                   | 319   | 277   | 246   | 221   | 203   | 185   | 172   | 168   | 159   | 130   | 113  | 98.5  | 88.5 | 81.1  | 75.5 | 70.2  | 66.8 | 54.1 | 46.0 | 39.3 | 34.0 | 30.9 | 27.6 | 25.1 | 21.7 | 11.1 |
| 1.75                                                   | 302   | 266   | 237   | 212   | 195   | 182   | 168   | 165   | 154   | 127   | 110  | 96.8  | 87.1 | 79.6  | 74.3 | 69.0  | 65.8 | 53.4 | 45.6 | 38.8 | 33.5 | 30.6 | 27.5 | 25.0 | 21.6 | 11.1 |
| 1.80                                                   | 284   | 248   | 226   | 205   | 188   | 176   | 164   | 160   | 150   | 123   | 108  | 95.0  | 85.8 | 78.0  | 73.1 | 67.8  | 64.6 | 52.6 | 44.9 | 38.3 | 33.1 | 30.1 | 27.2 | 24.6 | 21.3 | 11.0 |

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.  
All data shall be changed without notice, Luxury reserves the right to explain and update the information contained hereinto.

