



VISION Rechargeable Products
Sealed Lead Acid Battery

www.vision-batt.com

CTA-CFR Series

Front Terminal Battery

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

Shenzhen Center Power Tech. Co., Ltd

CTA12-75X-CFR 12V 75Ah

(Edition June 2004)

General Features

- Thick pasted plates with high quality lead-tin-calcium alloy grids for long service life;
- V0 class ABS 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

| | SI Units | English Units |
|----------------|----------|---------------|
| Length | 563mm | 22.2inch |
| Width | 115mm | 4.53inch |
| Height | 188mm | 7.40inch |
| Total Height | 188mm | 7.40inch |
| Approx. Weight | 28.5Kg | 62.8lbs |

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
 - 10 hour rate (7.50A, 10.8V) 75.0Ah
 - 5 hour rate (14.1A, 10.5V) 70.5Ah
 - 1 hour rate (53.6A, 9.60V) 53.6Ah
- Internal Resistance
 - Fully Charged battery 68°F(20°C) 6mOhms
- 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) 750A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)
 - Cycle use 14.4-14.7V
 - Maximum charging current 30% of rated capacity
 - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
 - Temperature compensation -20mV/°C



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CTA12-75X-CFR 12V 75Ah

Discharge Data

| Constant Current Discharge Data (Amperes at 20°C) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| End Voltage Per cell / V | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1h | 1.5h | 2h | 2.5h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 12h | 24h |
| 1.60 | 198 | 155 | 129 | 109 | 94.9 | 84.2 | 75.9 | 68.4 | 63.0 | 58.0 | 53.6 | 37.8 | 29.9 | 25.1 | 22.0 | 17.8 | 15.1 | 12.7 | 11.0 | 9.73 | 8.74 | 7.94 | 6.86 | 3.57 |
| 1.65 | 185 | 144 | 121 | 103 | 91.0 | 80.0 | 72.3 | 65.2 | 59.7 | 55.8 | 52.5 | 37.1 | 29.3 | 24.6 | 21.5 | 17.4 | 14.8 | 12.5 | 10.8 | 9.57 | 8.60 | 7.84 | 6.79 | 3.54 |
| 1.70 | 169 | 136 | 115 | 98.6 | 87.0 | 77.3 | 69.5 | 63.0 | 58.6 | 54.7 | 51.5 | 36.2 | 28.7 | 24.1 | 21.0 | 17.0 | 14.4 | 12.2 | 10.6 | 9.40 | 8.47 | 7.73 | 6.70 | 3.50 |
| 1.75 | 160 | 128 | 109 | 93.6 | 83.6 | 74.4 | 67.1 | 61.5 | 56.9 | 52.9 | 49.6 | 35.5 | 28.1 | 23.6 | 20.6 | 16.7 | 14.1 | 11.9 | 10.4 | 9.25 | 8.36 | 7.65 | 6.61 | 3.47 |
| 1.80 | 150 | 123 | 104 | 90.4 | 80.9 | 72.5 | 65.5 | 60.0 | 55.5 | 51.5 | 48.2 | 34.8 | 27.5 | 23.1 | 20.2 | 16.4 | 13.7 | 11.6 | 10.2 | 9.05 | 8.19 | 7.50 | 6.49 | 3.41 |

| Constant Power Discharge Data (Watts per cell at 20°C) | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| End Voltage Per cell / V | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1h | 1.5h | 2h | 2.5h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 12h | 24h |
| 1.60 | 342 | 266 | 222 | 189 | 167 | 149 | 136 | 124 | 115 | 107 | 99.8 | 70.5 | 55.6 | 47.0 | 41.3 | 33.5 | 28.7 | 24.4 | 21.0 | 18.8 | 16.9 | 15.3 | 13.1 | 6.74 |
| 1.65 | 316 | 252 | 212 | 183 | 161 | 144 | 131 | 119 | 111 | 104 | 96.6 | 68.7 | 53.9 | 46.0 | 40.7 | 33.0 | 28.3 | 23.9 | 20.6 | 18.6 | 16.7 | 15.2 | 13.1 | 6.71 |
| 1.70 | 293 | 238 | 200 | 173 | 154 | 138 | 127 | 116 | 108 | 101 | 95.3 | 67.7 | 53.1 | 45.3 | 40.1 | 32.5 | 27.6 | 23.6 | 20.4 | 18.5 | 16.6 | 15.1 | 13.0 | 6.68 |
| 1.75 | 274 | 223 | 189 | 166 | 148 | 133 | 122 | 114 | 105 | 99.0 | 92.7 | 66.2 | 52.3 | 44.6 | 39.5 | 32.0 | 27.4 | 23.3 | 20.1 | 18.4 | 16.5 | 15.0 | 13.0 | 6.65 |
| 1.80 | 249 | 206 | 177 | 155 | 141 | 128 | 118 | 110 | 103 | 96.2 | 90.2 | 64.9 | 51.5 | 43.9 | 38.8 | 31.6 | 26.9 | 23.0 | 19.9 | 18.1 | 16.3 | 14.8 | 12.8 | 6.61 |

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

Performance drawings

