



VISION Rechargeable Products  
Sealed Lead Acid Battery

[www.vision-batt.com](http://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

## CTA12-100X-CFR 12V 100Ah

(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	558mm	22.0inch
Width	125mm	4.92inch
Height	228mm	8.98inch
Total Height	228mm	8.98inch
Approx. Weight	40Kg	88.2lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
  - 10 hour rate (10.0A, 10.8V) 100Ah
  - 5 hour rate (18.8A, 10.5V) 93.8Ah
  - 1 hour rate (71.5A, 9.60V) 71.5Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) 4mOhms
- 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) 1000A(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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# CTA12-100X-CFR 12V 100Ah

## Discharge Data

Constant Current Discharge Data ( Amperes at 20°C )																							
End Voltage Per cell / V	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	207	171	146	126	112	101	91.2	84.0	77.3	71.5	50.4	39.9	33.5	29.3	23.7	20.1	16.9	14.7	13.0	11.7	10.6	9.14	4.76
1.65	192	162	138	121	107	96.4	86.9	79.6	74.4	70.0	49.4	39.0	32.8	28.7	23.2	19.7	16.6	14.4	12.8	11.5	10.5	9.05	4.72
1.70	182	154	132	116	103	92.7	84.0	78.2	72.9	68.6	48.3	38.2	32.1	28.0	22.6	19.2	16.3	14.1	12.5	11.3	10.3	8.93	4.67
1.75	171	145	125	111	99.2	89.4	82.0	75.9	70.5	66.1	47.3	37.4	31.4	27.4	22.2	18.8	15.9	13.9	12.3	11.2	10.2	8.81	4.63
1.80	164	138	120	108	96.7	87.3	80.0	74.0	68.7	64.3	46.4	36.6	30.8	26.9	21.8	18.3	15.5	13.6	12.1	10.9	10.0	8.65	4.54

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	355	296	252	223	199	181	166	154	143	133	94.0	74.1	62.7	55.0	44.6	38.3	32.6	28.0	25.1	22.5	20.4	17.5	8.99	
1.65	336	282	244	215	192	175	158	148	138	129	91.6	71.9	61.3	54.2	44.0	37.7	31.9	27.5	24.8	22.3	20.2	17.4	8.95	
1.70	318	266	231	205	184	169	154	144	135	127	90.2	70.8	60.4	53.4	43.3	36.8	31.4	27.2	24.7	22.1	20.1	17.4	8.90	
1.75	298	252	222	198	177	162	151	140	132	124	88.3	69.7	59.4	52.6	42.7	36.5	31.0	26.8	24.5	22.0	20.0	17.3	8.86	
1.80	275	237	207	188	171	157	147	137	128	120	86.5	68.6	58.5	51.7	42.1	35.9	30.6	26.5	24.1	21.8	19.7	17.0	8.81	

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

## Performance drawings

