



**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.

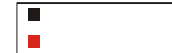
Shenzhen Center Power Tech. Co., Ltd

CTA12-85X-CFR 12V 85Ah

(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

	<i>SI Units</i>	<i>English Units</i>
Length	393mm	15.5inch
Width	125mm	4.92inch
Height	256mm	10.1inch
Total Height	256mm	10.1inch
Approx. Weight	32Kg	70.6lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
 - 10 hour rate (8.50A, 10.8V) 85.0Ah
 - 5 hour rate (15.9A, 10.5V) 79.5Ah
 - 1 hour rate (60.8A, 9.60V) 60.8Ah
- 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) 850A(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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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	224	176	146	124	108	95.4	86.0	77.5	71.4	65.7	60.8	42.8	33.9	28.5	24.9	20.1	17.1	14.4	12.5	11.0	9.90	9.00	7.77	4.05
1.65	209	163	138	117	103	90.7	81.9	73.9	67.7	63.2	59.5	42.0	33.2	27.9	24.4	19.7	16.7	14.1	12.2	10.8	9.75	8.88	7.69	4.01
1.70	191	154	131	112	98.6	87.6	78.8	71.4	66.4	62.0	58.3	41.1	32.5	27.3	23.8	19.2	16.3	13.8	12.0	10.7	9.60	8.76	7.59	3.97
1.75	181	145	123	106	94.7	84.3	76.0	69.7	64.5	59.9	56.2	40.2	31.8	26.7	23.3	18.9	15.9	13.5	11.8	10.5	9.48	8.67	7.49	3.94
1.80	170	139	117	102	91.7	82.2	74.2	68.0	62.9	58.4	54.6	39.4	31.1	26.2	22.9	18.5	15.5	13.2	11.5	10.3	9.28	8.50	7.35	3.86

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	388	302	252	214	189	169	154	141	130	121	113	79.9	63.0	53.3	46.8	37.9	32.6	27.7	23.8	21.3	19.1	17.3	14.9	7.64
1.65	358	285	240	207	183	163	149	135	126	117	110	77.9	61.1	52.1	46.1	37.4	32.0	27.1	23.4	21.1	19.0	17.2	14.8	7.61
1.70	332	270	226	196	174	157	144	131	122	114	108	76.7	60.2	51.3	45.4	36.8	31.3	26.7	23.1	21.0	18.8	17.1	14.8	7.57
1.75	310	253	214	189	168	150	138	129	119	112	105	75.1	59.2	50.5	44.7	36.3	31.0	26.4	22.8	20.8	18.7	17.0	14.7	7.53
1.80	282	234	201	176	160	145	133	125	116	109	102	73.5	58.3	49.7	43.9	35.8	30.5	26.0	22.5	20.5	18.5	16.7	14.5	7.49

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

Performance drawings

