



VISION Rechargeable Products
Sealed Lead Acid Battery

www.vision-batt.com

CTA Series

Front Terminal Battery

The new VISION 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.

Shenzhen Center Power Tech. Co., Ltd

CTA12-50X 12V 50Ah

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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

	SI Units	English Units
Length	279mm	11.0inch
Width	105mm	4.13inch
Height	280mm	11.0inch
Total Height	280mm	11.0inch
Approx. Weight	20Kg	44.1lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
 - 10 hour rate (5.00A, 10.8V) 50.0Ah
 - 5 hour rate (9.37A, 10.5V) 46.9Ah
 - 1 hour rate (35.8A, 9.60V) 35.8Ah
- Internal Resistance
 - Fully Charged battery 68°F(20°C) 6.5mOhms
- 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) 500A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)
 - Cycle use 2.30-2.35VPC
 - Maximum charging current 30% of rated capacity
 - Temperature compensation -30mV/°C
- Standby use 2.23-2.27VPC
 - 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	132	104	85.7	72.9	63.2	56.1	50.6	45.6	42.0	38.6	35.8	25.2	20.0	16.8	14.7	11.9	10.0	8.46	7.33	6.48	5.82	5.30	4.57	2.38
1.65	123	96.0	80.9	68.9	60.7	53.3	48.2	43.4	39.8	37.2	35.0	24.7	19.5	16.4	14.4	11.6	9.84	8.30	7.20	6.38	5.74	5.22	4.53	2.36
1.70	113	90.8	76.9	65.8	58.0	51.5	46.3	42.0	39.1	36.5	34.3	24.2	19.1	16.1	14.0	11.3	9.62	8.13	7.06	6.27	5.65	5.15	4.47	2.34
1.75	107	85.5	72.5	62.4	55.7	49.6	44.7	41.0	37.9	35.2	33.0	23.7	18.7	15.7	13.7	11.1	9.37	7.95	6.93	6.17	5.57	5.10	4.41	2.32
1.80	100	82.0	69.0	60.3	53.9	48.4	43.7	40.0	37.0	34.4	32.1	23.2	18.3	15.4	13.5	10.9	9.14	7.76	6.77	6.04	5.46	5.00	4.32	2.27

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	228	177	148	126	111	99.3	90.6	82.8	76.7	71.4	66.5	47.0	37.1	31.3	27.5	22.3	19.2	16.3	14.0	12.6	11.3	10.2	8.75	4.50
1.65	211	168	141	122	108	96.2	87.5	79.2	74.0	69.0	64.4	45.8	36.0	30.7	27.1	22.0	18.8	16.0	13.8	12.4	11.2	10.1	8.70	4.48
1.70	195	159	133	115	103	92.3	84.7	77.1	71.8	67.3	63.5	45.1	35.4	30.2	26.7	21.7	18.4	15.7	13.6	12.4	11.1	10.1	8.69	4.45
1.75	182	149	126	111	99.0	88.5	81.1	75.7	69.8	66.1	61.8	44.2	34.9	29.7	26.3	21.4	18.2	15.5	13.4	12.3	11.0	10.0	8.65	4.43
1.80	166	137	118	104	94.0	85.3	78.3	73.3	68.4	64.1	60.1	43.2	34.3	29.3	25.9	21.1	17.9	15.3	13.3	12.1	10.9	9.84	8.50	4.41

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

Performance drawings

