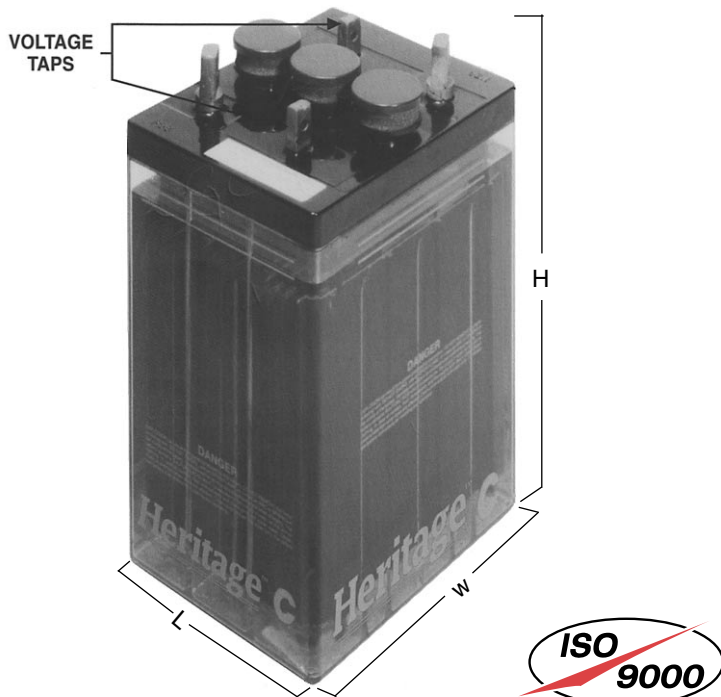


ANTIMONY FLAT PLATE

B A T T E R I E S



Description

The Heritage CA battery has been carefully engineered to meet the varying power needs of the utility market. The lead-antimony alloy grids maximize performance in high cycling applications. The alloy also enables the CA battery to tolerate higher temperatures than standard lead-calcium designs. This makes the CA battery ideal for challenging utility switchgear applications.

Its .280 inch positive grids are one of the thickest in the industry, making it an excellent long discharge battery. At the same time, its nealy square plate configuration enhances high rate performance. Coupling these two operating characteristics with multi-cell construction to minimize floor space, makes the CA battery ideally suited for multi-power profile requirements of the utility market.

The Heritage CA battery will also allow for individual cell monitoring through voltage taps (posts) on each cell. Usually sealed multi-cell jars do not allow this sort of monitoring due to intercell connections being contained within the jar. This ease of maintenance feature, along with the excellent design and performance features make the CA the battery of choice for utility switchgear applications.

Features

- Long Life - 20 Year Life Expectancy.
- Economical - Lowest initial cost.
- Construction - Flat plate Lead-Antimony alloy grids.
- Application - Float applications, tolerant of high ambient temperatures on limited basis.
- Capacities - 50 to 200 Ah nominal.
- Performance - Optimized performance for discharges from 1 minute to 8 hours duration. Well suited for demanding complex load profiles with exceptionally high initial and ending currents separated with moderate constant-current demand.
- Battery cover made of Flame Retardant ABS (UL1778 and UL94 VO/L.O.I. 28% as Standard.

MODEL
EXIDE
CA
50-200Ah

APPLICATIONS:

SWITCHGEAR
UTILITIES
COMMUNICATIONS

Specifications

PLATE THICKNESS:

POSITIVE: 0.28 in/7.1 mm

NEGATIVE: 0.21 in/5.3 mm

PLATE DIMENSIONS:

Height Width

POS: 7.75 in/197 mm 8.00 in/203 mm

NEG: 7.75 in/197 mm 8.00 in/203 mm

SEDIMENT SPACE: 1.0 in/25.4 mm

ELECTROLYTE OVER PLATES:

1.5 in/38.1 mm

CONTAINER:

Styrene Acrylonitrile Copolymer

COVER: Made from Flame Retardant ABS (UL94 VO/L.O.I. 28%)

SEPARATORS: Microporous rubber

RETAINERS: "Vitrex" - glass fiber

POST TYPE: Single Post with individual cell voltage taps.

POST SEAL TYPE: Compression rubber bushing, epoxy sealed.

PLATE SUSPENSION TYPE:

POSITIVE: Bottom supported

NEGATIVE: Bottom supported

VENT TYPE:

Flame Arrestor, Fused Alumina

FLOAT VOLTAGE SETTING:

ACCEPTABLE MIN/MAX : 2.15/2.22 VPC

RECOMMENDED: 2.20 VPC

SPECIFIC GRAVITY: 1.215

BOLT CONNECTORS:

Stainless Steel, Standard English

Measure, Hex-Head

INTERCELL CONNECTORS:

Lead-Plated Copper

Capacities - Dimensions - Weights

TYPE*	NOM. Ah CAP.	OVERALL DIMENSIONS						WEIGHTS - VOLUMES								OUTLINE DRAWING SEE CATALOG SECTION
		LENGTH (L)**		WIDTH (W)		HEIGHT (H)		UNPACKED		DOMESTIC PACKED		ELECTROLYTE ONLY 1.215 S.G.				
		in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs	lbs	kgs	gal	l	
2CA-3	50	7.0	178	9.0	229	13.4	340	38	17.2	43	19.5	13	5.9	1.3	4.8	57.20
3CA-3	50	7.0	178	9.0	229	13.4	340	53	24.0	59	26.8	20	9.1	2.0	7.5	
2CA-5	100	7.0	178	9.0	229	13.4	340	47	21.3	52	23.6	10	4.5	1.0	3.7	
3CA-5	100	7.0	178	9.0	229	13.4	340	68	30.8	73	33.1	17	7.7	1.7	6.4	
2CA-7	150	12.2	310	9.0	229	13.4	340	74	33.6	83	37.6	23	10.4	2.3	8.6	
3CA-7	150	12.2	310	9.0	229	13.4	340	104	47.2	112	50.8	32	14.5	3.2	12.0	
2CA-9	200	12.2	310	9.0	229	13.4	340	85	38.6	92	41.7	22	10.0	2.2	8.2	
3CA-9	200	12.2	310	9.0	229	13.4	340	121	54.9	130	59.0	31	14.1	3.1	11.6	

* Prefix Number indicates cells per unit. Suffix number indicates total plates per cell.

** 0.50" must be added between units for spacing purposes when calculating total battery length.

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in Amperes**)

TYPE	NOM. Ah CAP. ¹	72 HR	24 HR	12 HR	8 HR	5 HR	4 HR	3 HR	2 HR	1.5 HR	1 HR	30 MIN	15 MIN	1 MIN	1 MIN to 1.50 VPC ²	
TO 1.75 END VOLTS PER CELL																
2CA-3	50	0.9	2.5	4.4	6.3	8.8	10.4	12.8	16.8	20.2	26	35	45	69	129	
3CA-3	50	0.9	2.5	4.4	6.3	8.8	10.4	12.8	16.8	20.2	26	35	45	69	129	
2CA-5	100	1.9	5.0	8.8	12.5	17.6	20.7	25.6	33.6	40.4	51	70	89	136	254	
3CA-5	100	1.9	5.0	8.8	12.5	17.6	20.7	25.6	33.6	40.4	51	70	89	136	254	
2CA-7	150	2.8	7.5	13.2	18.8	26.4	31.0	38.4	50.4	60.6	78	105	133	201	375	
3CA-7	150	2.8	7.5	13.2	18.8	26.4	31.0	38.4	50.4	60.6	78	105	133	201	375	
2CA-9	200	3.8	10.0	17.6	25.0	35.2	41.4	51.2	67.2	80.8	104	140	177	264	490	
3CA-9	200	3.8	10.0	17.6	25.0	35.2	41.4	51.2	67.2	80.8	104	140	177	264	490	

*Ampere values listed represent 100% of the cell's capacity. Initial capacity shall be a minimum of 90% of these values per IEEE 450.

**1.215 S.G. electrolyte at 77° F (25° C) includes intercell connector drop.

¹Nominal AMP hour capacity at the 8 hour rate.

²One minute rates to 1.50 VPC should only be used for short circuit calculations and not as performance data.

All data subject to change without notice.

AVERAGE CAPACITY OF MEAN — SIZE
CELLS INCLUDING CONNECTORS

S - 1000

EnerSys

TYPE: CA

Temp.
77°F (25°C)

DATE: 12/76

SP. GR.
1.215

