

# Cat<sup>®</sup> Telecommunication and Utility Batteries



## PROVIDING THE RESERVE POWER YOU NEED FOR DEMANDING TELECOM AND UTILITY APPLICATIONS

When it comes to the performance of your telecom or utility backup power system, battery failure is not an option. You need instant, reliable power. All day, every day. That's why Cat<sup>®</sup> Batteries are designed to provide reserve power to ensure your critical power needs are met.

The sealed Valve-Regulated Lead Acid (VRLA) batteries include the latest in Absorbed Glass Mat (AGM) technology. Puncture-resistant glass mat separators absorb all the electrolyte, which lowers internal resistance and results in superior power delivered to your critical load.

Our Telecom and Utility Batteries have a proven track record of powering essential utility, telecom and other emergency or mission critical loads during a power outage. When you invest in Cat Batteries, you gain the best possible power capacity and cell consistency, with long-lasting reliability.



# EXCLUSIVE DESIGN FEATURES EXTEND BATTERY LIFE, OPTIMIZE PERFORMANCE

## Advanced Absorbed Glass Mat (AGM) technology

utilizes special microporous separators to absorb all the electrolyte, lowering internal resistance, increasing power, maximizing space utilization and eliminating leaks for safe installation and storage.

## Puncture-resistant glass mat separators

lower internal resistance for superior high-rate power while protecting against failures and shorts for maximum life.

## Heavier, thicker plates

are pasted from both sides for added durability.

## Special positive-grid alloy

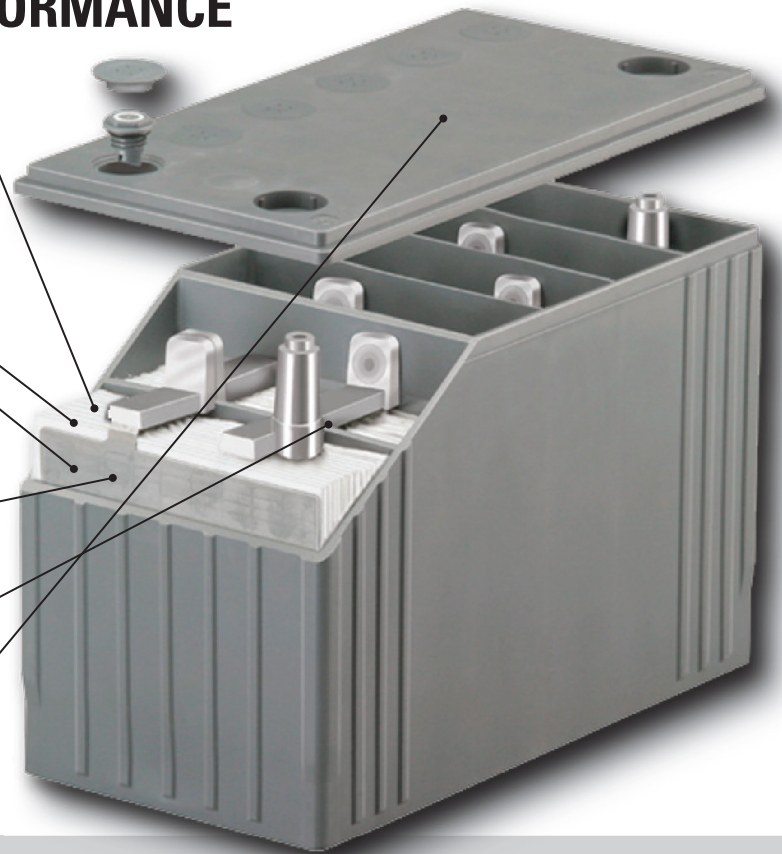
with pure lead, low calcium and high tin delivers quick, high-rate power.

## Exclusive thru-partition weld seals

ensure superior weld quality, maximizing current transfer between cells.

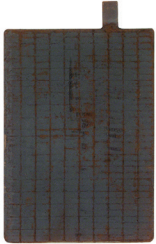


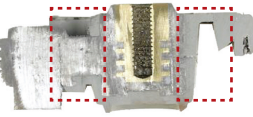



## Reinforced, flame-retardant (rated UL 94 V-0 28% LOI) polypropylene or standard polypropylene case and cover

resist bulging and meet safety requirements.



## Side-by-Side Comparisons Highlight the Advantages of Cat Batteries

In addition to the benefits called out above, our batteries have the following unique design elements that clearly show the advantages of replacing your current batteries with Cat High Rate Batteries.

Cat High Rate Batteries	Others	Cat High Rate Batteries	Others
 <p><b>Industry-Leading Individual Plate Formation (IPF)</b> technology means each plate is formed and dry-charged individually, and then fully immersed in electrolyte. The result? Optimum power capacity, cell consistency and long-term reliability.</p>	 <p>Others form their plates in the jar (container), resulting in incomplete plates.</p>	 <p><b>Proven Epoxy Post-Seal Design</b> prevents electrolyte from escaping the cell and corroding the connection, which could lead to a connection failure. Our seal design is 100% factory tested, ensuring long life and proven performance.</p>	 <p>Others fail to seal the post from the case of the battery, leading to connection failures.</p>
		 <p><b>Quality Low-Pressure Self-Sealing Valves</b> are 100% factory tested for opening pressure, closing pressure and reverse flow. Self-sealing valves prevent premature dry-out for dependable battery service.</p>	 <p>Others use an inferior, press-fit valve, which cannot guarantee a good seal—allowing gas to escape, reducing electrolyte content and resulting in premature failure.</p>

## DISCHARGE TIME – HOURS [Ratings In Amps @ 77°F (25°C)]

Cat Part Number	Final Voltage	0.5	1	1.5	2	3	4	5	6	7	8	10	12	20	24
<b>451-8572</b>	1.67 vpc	31.9	18.7	13.6	10.9	7.9	6.2	5.1	4.4	3.9	3.4	2.8	2.4	1.5	1.3
Top Access	1.75 vpc	30.9	18.2	13.3	10.7	7.7	6.1	5.1	4.3	3.8	3.4	2.8	2.4	1.5	1.3
	1.80 vpc	-	17.8	13.1	10.6	7.6	6.0	5.0	4.3	3.7	3.3	2.8	2.3	1.5	1.2
	1.85 vpc	-	17.4	12.7	10.3	7.4	5.9	4.9	4.2	3.7	3.3	2.7	2.3	1.4	1.2
	1.90 vpc	-	16.1	11.9	9.6	6.9	5.5	4.5	3.9	3.4	3.0	2.5	2.1	1.3	1.1
<b>451-8574</b>	1.67 vpc	42.6	24.9	18.1	14.5	10.3	8.2	6.8	5.8	5.1	4.5	3.7	3.1	1.9	1.6
Top Access	1.75 vpc	41.2	24.2	17.6	14.2	10.1	8.0	6.7	5.7	5.0	4.4	3.6	3.1	1.9	1.6
	1.80 vpc	-	23.8	17.4	14.0	10.0	7.9	6.6	5.6	4.9	4.4	3.6	3.0	1.9	1.6
	1.85 vpc	-	23.1	16.9	13.6	9.7	7.7	6.4	5.4	4.8	4.2	3.5	2.9	1.8	1.5
	1.90 vpc	-	21.5	15.7	12.7	9.0	7.1	5.9	5.0	4.4	3.9	3.2	2.7	1.7	1.4
<b>451-8576</b>	1.67 vpc	89.5	52.2	37.5	29.6	21.0	16.4	13.5	11.5	10.0	8.9	7.3	6.2	3.9	3.3
Top Access	1.75 vpc	87.8	51.4	37.2	29.3	20.8	16.2	13.4	11.4	9.9	8.8	7.2	6.1	3.8	3.2
	1.80 vpc	-	50.8	36.7	29.0	20.6	16.1	13.3	11.3	9.9	8.8	7.2	6.1	3.8	3.2
	1.85 vpc	-	49.6	36.0	28.5	20.3	15.8	13.1	11.1	9.7	8.6	7.1	6.0	3.7	3.2
	1.90 vpc	-	45.2	32.7	25.9	18.4	14.4	11.9	10.1	8.8	7.9	6.5	5.5	3.4	2.9
<b>451-8577</b>	1.67 vpc	101.1	58.8	42.5	33.8	24.3	19.0	15.7	13.4	11.7	10.4	8.5	7.1	4.5	3.7
Top Access	1.75 vpc	97.4	57.3	41.6	33.2	23.9	18.7	15.5	13.2	11.6	10.3	8.4	7.1	4.4	3.7
	1.80 vpc	92.6	55.3	40.7	32.5	23.4	18.4	15.2	13.0	11.3	10.1	8.2	7.0	4.3	3.7
	1.85 vpc	87.5	51.8	38.4	30.8	22.2	17.5	14.5	12.4	10.8	9.6	7.9	6.7	4.2	3.5
	1.90 vpc	75.0	45.7	34.4	27.7	20.1	15.9	13.2	11.2	9.8	8.7	7.2	6.1	3.8	3.2
<b>451-8578</b>	1.67 vpc	119	69.6	50.0	39.5	28.0	21.9	18.0	15.3	13.4	11.9	9.8	8.3	5.2	4.4
Top Access	1.75 vpc	117	68.5	49.5	39.0	27.8	21.6	17.9	15.2	13.3	11.8	9.6	8.2	5.1	4.3
	1.80 vpc	-	67.8	48.9	38.7	27.5	21.5	17.7	15.1	13.1	11.7	9.6	8.1	5.1	4.3
	1.85 vpc	-	66.2	48.0	38.0	27.0	21.1	17.4	14.8	12.9	11.5	9.4	8.0	5.0	4.2
	1.90 vpc	-	60.3	43.6	34.5	24.6	19.3	15.9	13.5	11.8	10.5	8.6	7.3	4.6	3.9
<b>451-8579</b>	1.67 vpc	104	63.7	47.7	38.4	27.3	21.5	17.8	15.3	13.5	12.1	10.1	8.6	5.4	4.6
Front Access	1.75 vpc	103	63.3	47.3	38.0	27.0	21.2	17.6	15.2	13.4	12.0	10.0	8.5	5.4	4.6
	1.80 vpc	101	62.5	46.8	37.6	26.8	21.0	17.4	15.0	13.3	11.9	9.9	8.4	5.4	4.5
	1.85 vpc	96.6	60.8	45.6	36.7	26.2	20.6	17.1	14.8	13.0	11.7	9.7	8.3	5.2	4.4
	1.90 vpc	88.8	57.2	43.2	34.9	24.8	19.6	16.3	14.0	12.4	11.1	9.2	7.8	5.0	4.2
<b>451-8580</b>	1.67 vpc	160	91.7	64.3	51.0	36.7	28.9	23.9	20.3	17.8	15.7	12.9	10.9	6.7	5.6
Top Access	1.75 vpc	153	89.5	62.9	50.1	36.1	28.5	23.6	20.1	17.5	15.6	12.7	10.8	6.7	5.6
	1.80 vpc	144	86.6	61.2	48.9	35.4	27.9	23.1	19.8	17.3	15.3	12.5	10.6	6.6	5.5
	1.85 vpc	126	77.6	56.2	45.9	33.3	26.5	22.0	18.8	16.5	14.7	12.0	10.2	6.3	5.3
	1.90 vpc	106	66.1	49.8	40.7	30.1	24.1	20.1	17.2	15.1	13.4	11.0	9.3	5.8	4.9
<b>451-8581</b>	1.67 vpc	162	95.5	69.2	54.9	39.7	31.7	26.6	23.0	20.3	18.3	14.9	12.7	8.0	6.7
Front Access	1.75 vpc	156	93.9	68.0	54.1	39.2	31.4	26.3	22.8	20.1	18.1	14.8	12.6	7.9	6.7
	1.80 vpc	149	91.4	66.8	53.2	38.7	31.0	26.0	22.5	19.9	17.9	14.6	12.4	7.8	6.6
	1.85 vpc	138	86.1	63.6	51.0	37.3	29.9	25.1	21.7	19.2	17.3	14.1	12.0	7.5	6.3
	1.90 vpc	119	76.8	57.5	46.6	34.4	27.6	23.3	20.2	17.8	16.0	13.1	11.1	6.9	5.8
<b>451-8584</b>	1.67 vpc	168	99.4	70.0	56.4	41.2	32.7	27.4	23.9	21.1	19.0	15.8	13.5	8.6	7.3
Front Access	1.75 vpc	159	96.6	68.8	55.5	40.6	32.2	27.1	23.6	20.9	18.8	15.6	13.3	8.5	7.2
	1.80 vpc	149	93.0	67.2	54.2	39.8	31.6	26.6	23.2	20.5	18.4	15.3	13.1	8.4	7.1
	1.85 vpc	135	86.8	63.7	51.3	38.0	30.2	25.6	22.3	19.7	17.7	14.7	12.6	8.1	6.8
	1.90 vpc	116	77.0	57.7	46.9	34.7	27.8	23.7	20.6	18.2	16.4	13.6	11.6	7.4	6.3
<b>451-8585</b>	1.67 vpc	182	112	81.2	64.5	46.8	37.1	31.2	27.0	23.9	21.4	17.6	14.9	9.5	8.0
Front Access	1.75 vpc	170	108	79.4	63.5	46.1	36.7	30.8	26.7	23.6	21.2	17.4	14.8	9.4	8.0
	1.80 vpc	157	103	77.1	62.1	45.3	36.1	30.3	26.3	23.3	20.9	17.2	14.6	9.2	7.8
	1.85 vpc	127	94.4	72.5	58.9	43.4	34.7	29.2	25.3	22.5	20.2	16.6	14.1	8.9	7.6
	1.90 vpc	-	83.1	64.7	53.0	39.5	31.8	26.8	23.3	20.7	18.6	15.3	13.0	8.2	7.0
<b>456-0747</b>	1.67 vpc	270	156	113	88.6	61.8	47.8	39.1	33.1	28.8	25.5	20.7	17.4	10.7	9.0
Front Access	1.75 vpc	249	152	110	86.3	60.3	46.7	38.3	32.5	28.2	25.0	20.4	17.2	10.6	8.9
	1.80 vpc	230	143	105	83.2	58.3	45.3	37.2	31.6	27.5	24.4	19.9	16.8	10.4	8.7
	1.85 vpc	203	130	96.2	77.0	54.7	42.7	35.2	30.0	26.2	23.2	19.0	16.1	9.9	8.4
	1.90 vpc	169	110	82.8	67.3	48.6	38.3	31.7	27.1	23.7	21.1	17.2	14.6	9.1	7.6

# EVEN MORE REASONS TO REPLACE YOUR CURRENT BATTERIES WITH CAT TELECOM AND UTILITY BATTERIES

## Rely on Cat Dealers for Expert Installation, Inspection and Maintenance



Your critical power system cannot function without properly maintained batteries. That's why your Cat Dealer offers:

- Local service technicians who are familiar with your system
- Technicians trained according to industry standards
- A comprehensive, detailed report on the condition of your battery system



## Count on Strict Quality Control

Cat Batteries go through a series of over 250 stringent quality control checks and extensive testing to ensure you benefit from the industry's most accurate and dependable ratings. With a 10-year design life, it continues to deliver reliable power when conventional standby batteries might already have failed.

## Give Old Batteries a New Start

The Cat Battery Recycling Program makes discarding spent lead-acid batteries easy for you, relying on Cat Dealers in the United States and Canada as your trusted source for disposal. You are assured your batteries will be properly handled and virtually 100 percent recycled in a manner that protects the planet—meeting all environmental regulatory standards.

## CAT DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT

We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your business up and running to maximize your investment.



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