



# HEAVY DUTY BATTERIES TOUGHEST

BATTERIES IN

THE INDUSTRY



Heavy Duty Batteries, standard in all new Cat® machines and engine gensets, are best in class. They out-test, out-perform and outlast the competition to ensure your equipment can go all-out for the long haul, even in the harshest environments. Cat® Heavy Duty Batteries require little to no maintenance, reducing downtime.

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Tractors Singapore



# 3 REASONS WHY CAT® HEAVY DUTY BATTERIES PROVIDE GREATER VALUE



## 1. Supreme Durability

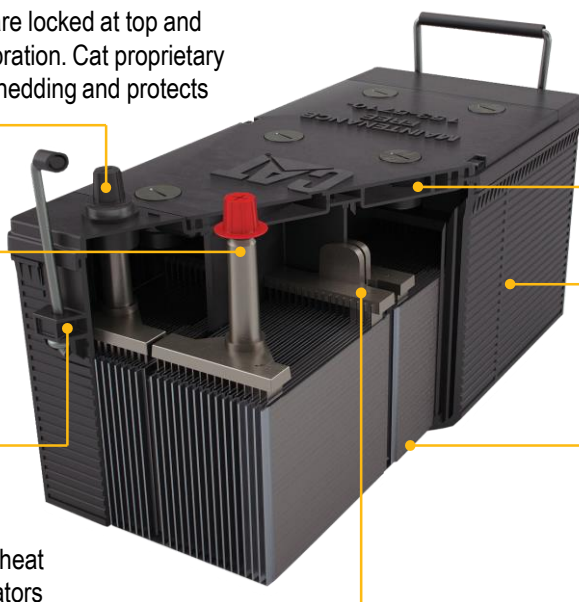
Vibration is the leading cause of failure in off-highway applications because it is the leading cause of broken components. That is why Cat Heavy Duty Batteries are designed for maximum vibration resistance. Caterpillar's 100-hour battery vibration test is five times better than the industry-standard 20-hour vibration test, assuring that Cat Heavy Duty Batteries will provide longer life and maximum resistance to the damaging effects of vibration.

Elements (positive and negative plates) are locked at top and anchored at container bottom to resist vibration. Cat proprietary acid/paste combination resists material shedding and protects against shorts.

Thicker internal posts provide lower electrical resistance, resulting in higher output under starting conditions.

Heavy-duty cast-on (not welded) straps are utilized, with shortened through partition connectors to shorten the electrical path and maximize starting power

Grids use denser lead within the plates to increase battery life and power in extreme heat and cold. Microporous polyethylene separators provide protection against "shorts" and vibration damage.



A heat seal/venting system design prevents both interior and exterior electrolyte leakage. Flame arrestor safety vents reduce possibility of explosion from external sparks.

The battery case has a brickwork design for reinforcement, to provide extra strength in all temperature extremes and reduce the chance of punctures and case flexing.

The additional step of using hot melt to anchor the bottom of the plates provides for superior retention of active material in the plates.

## 2. Unmatched Performance

Cat Heavy Duty Batteries include more lead versus the industry standard and are designed to meet stringent Caterpillar design specifications, which provide industry-leading cold cranking amp capability and reserve capacity.

## 3. Excellent Warranty

Every Cat Heavy Duty Battery comes with a two-year standard warranty\* to enhance your ownership experience and provide extra peace of mind. If a battery should fail within its two year coverage period, Caterpillar will provide a full replacement



# HEAVY DUTY BATTERIES

## PROVEN POWER FOR EXTREME PRODUCTIVITY

Heavy Duty Batteries are built with keen attention to detail, meaning extreme performance and safety no matter the application.

### 5X INDUSTRY STANDARD IN 100-HR VIBRATION TEST

#### VIBRATION IS THE LEADING CAUSE OF FAILURE IN OFF-ROAD BATTERY APPLICATIONS

- Heavy Duty Batteries minimize vibration forces without
  - Suffering mechanical damage
  - Losing capacity or electrolytes
  - Developing leaks
- Rugged connectors and locked cell element
- Positive & negative plates firmly anchored to waffle bottom with hotmelt provide superior retention and fight against vibration

### ROBUST PERFORMANCE

#### 72-HOUR DEEP DISCHARGE / CHARGE TEST

- Test stimulates:
  - A radio or other electrical power left on for 72 hr
  - A completely discharged battery
- Batteries must recover to 25 charging amps within 20 min

#### 30-DAY COMPLETE DISCHARGE / RECHARGE TEST

- Battery must recover to 25 charging amps within 60 min

Quicker recharge time requirements than industry standard

### UNMATCHED RELIABILITY

#### HEAVY-DUTY LIFECYCLE (SAE J2185) TEST

- Deeper discharge and charge cycles at extreme temperatures
- Brickwork design of case provides extra strength in all temperature extremes and reduces chance of punctures & case flexing
- Heat seal/venting prevents both interior & exterior electrolyte leakage

#### COLD SOAK TESTS

- Batteries cold soaked at sub-freezing temperatures
- Must start an equally cold engine to pass

## STARTING IN 2023

UP TO 40% DISCOUNT



#### TERMS & CONDITIONS

- Special pricing promotion is valid till 23<sup>rd</sup> Dec 2023.
- Not valid with other promotions or discounts.
- Other terms & conditions for quotation and sales order apply.
- Tractors Singapore Limited reserved the rights to modify or cancel the program anytime.

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LET'S DO THE WORK.™

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