



Three-Level Protection

Leading the Charge for Safer
Film & Broadcast Productions.

Ensuring safety on set.

At Anton/Bauer, we stand apart as the leading provider of safe and reliable power for the film and television industry. Our dedication lies in ensuring that every scene unfolds seamlessly, underpinned by our no compromise commitment to safety.

We understand the stakes. That's why we take pride in our commitment to delivering power solutions that prioritize safety above all else. Our unique "Three-Levels of Protection" standard for batteries and chargers isn't just a promise; it's a blend of advanced software diagnostics and meticulous engineering built into each product tailored to meet the rigorous demands of broadcasting and cinematography.

The Anton/Bauer mark is synonymous with safety in the industry. Choosing Anton/Bauer means choosing peace of mind. Here's how we apply three levels of safety to batteries and chargers.



Batteries

Level 1 - Intelligent Monitoring

Anton/Bauer's smart software-based monitoring means you don't need to worry about critical pack parameters.

The battery software continually monitors:

- ✓ Cell voltage
- ✓ Current
- ✓ Temperature
- ✓ Pack voltage

This advanced monitoring ensures that your battery performs optimally during charging, discharging, or idle mode. With this safety net in place, you can focus on capturing those perfect shots without interruptions, knowing your equipment is in peak condition.

Level 2 - Rapid Response

Anton/Bauer hardware-based sampling provides an extra layer of protection, responding swiftly to unforeseen surges that may not be detected by software alone.

As a result, you can confidently navigate dynamic shooting conditions, relying on the battery's fast response to unexpected challenges. Whether you're capturing action sequences or covering live events, Anton/Bauer batteries have your back.

Level 3 - Ultimate Safeguarding

Anton/Bauer batteries are equipped with additional and redundant circuitry, ensuring continuous monitoring of voltages.

In rare instances when the first two levels face an unexpected obstacle, this third level jumps into action, offering ultimate protection. By permanently opening a fuse on the PCBA, the battery safeguards itself from potential damage, ensuring your safety is never compromised.





Chargers

Three Levels of Protection are also embedded in Anton/Bauer Intelligent LP, Performance & 26V series chargers, mirroring the robust safety features found in Anton/Bauer batteries.

Level 1 - Multiple Isolation

In the event of a component failure, chargers are designed to isolate the affected area from the rest of the charging circuitry.

Power supplies are completely separate from the charge circuitry, safeguarding the entire operation. With built-in features like fast-acting fuses and short circuit protection, even if a power supply encounters damage, the charger remains resilient.

Level 2 - Communications

Chargers engage in a sophisticated dialogue with our batteries, ensuring a tailored charging experience.

By communicating with the battery to determine its desired current and voltage, chargers create a customized charge profile optimized for both performance and battery longevity.

This synergy between batteries and chargers is paramount for maximizing efficiency and prolonging the life of your equipment. Maintaining an ecosystem of Anton/Bauer batteries and chargers ensures seamless compatibility and peak performance.

Level 3 - Controlled Ramp Up

Once communication is established between the battery and charger, prioritize safety and precision during the charging process.

Rather than abruptly applying the specified voltage and current, employ a gradual ramp-up approach, carefully monitoring the battery's response at every step.

For instance, if a Dionic XT90 battery requests a charge to 16.1V at 4A, we incrementally increase the parameters while constantly evaluating the battery's condition and temperature.

Through continuous communication and real-time monitoring, ensure that vital information is preserved, and your equipment remains safe throughout the charging cycle.

UN Safety Assured

All Anton/Bauer batteries meet the requirements of each test in the UN Manual of Tests and Criteria, Part, sub-section 38.3.

Test T.1 - Altitude Simulations

Simulates air transport under low-pressure conditions.

Test T.2 - Thermal Test

Assesses cell and battery seal integrity and internal electrical conditions and is conducted using rapid and extreme temperature changes.

Test T.3 - Vibration

Simulates vibration during transport.

Test T.4 - Shock

Assesses the robustness of cells and batteries against cumulative shock.

Test T.5 - External Short Circuit

Simulates an external short circuit.

Test T.6 - Impact / Crush

Simulate mechanical abuse from an impact or crush that may result in an internal short circuit.

Test T.7 - Overcharge

Evaluates the ability of a rechargeable battery or a single cell rechargeable battery to withstand an overcharge condition.

Test T.8 - Forced Discharge

Evaluates the ability of a primary or rechargeable cell to withstand a forced discharge condition.

Additional Safety Ratings

- ✓ UN 38.3 - All batteries have passed this series of tests and are UN 38.3 compliant.
- ✓ UL94 - Products are UL 94 classified, which is a burning test to see how flame retardant the resin of our battery casings are. All our products have the highest possible V-0 rating.
- ✓ DIONIC XT and Titon battery ranges also meet the IEC 62133 standards and tests for the safe transportation of portable sealed secondary lithium cells and batteries.
- ✓ All Anton/Bauer batteries meet the IEC 61000 electromagnetic compatibility standards and tests for conducted and radiated EMC emissions.

