

CASE STUDY**Enhancing Race-Day Preparedness with
AMETEK Programmable Power's XG Series****➤ Background**

Wayne Taylor Racing (WTR), a leading name in motorsports, has consistently demonstrated a commitment to excellence and innovation. As the team prepared for the Rolex 24 and the 2025 IMSA WeatherTech SportsCar Championship racing season, they aimed to refine operations and minimize disruptions during events. Following a season of integrating new equipment and addressing technical challenges, WTR identified the need for more reliable and precise power management solutions to enhance their race-day efficiency and performance.

**➤ The Challenge**

During the 2024 season, WTR faced recurring problems with charging their racecar's low-voltage system. On several occasions, the cars arrived at the grid with dangerously low battery levels, risking race delays or the potential to not even start the race. This limitation underscored the need for a robust and precise power management system to ensure seamless race-day operations.

**➤ The Solution**

WTR collaborated with AMETEK Programmable Power to integrate their XG Series of programmable power supplies into their operations. These supplies offered key features, including robust feedback systems, adjustable voltage and current outputs, and fault detection. At a test session at Daytona International Speedway, the team used these power supplies to charge their race car batteries at optimal rates consistently.

The XG Series' programmable nature allowed WTR to fine-tune the charging process during collaborations with General Motors. They adjusted the voltage and current settings to align perfectly with operational requirements, resulting in reliable battery performance both in the pit lane and in the garage. Additionally, WTR plans to expand the use of these power supplies in their new race shop, using them for bench projects and custom voltage needs.

➤ Conclusion

AMETEK Programmable Power's XG Series has significantly enhanced WTR's preparedness and operational efficiency. By ensuring stable, adjustable, and monitored power delivery, these supplies have eliminated previous battery-related concerns. As WTR continues to fine-tune its application of the XG Series, it is poised to achieve smoother events and maintain a competitive edge in the 2025 racing season. This partnership exemplifies how cutting-edge technology can address specific challenges, ultimately driving success in high-stakes environments.