



CASE STUDY: Revolutionary Deka Fahrenheit[®] providing reliable back up communication power for national telecommunication provider in uncontrolled high temperature application.

THE BACKGROUND & CHALLENGE

Telecommunications are vital to our modern fast-paced world, with nearly every aspect of business relying on these connections. Millions of phone calls and data transfers happen every day. In fact, just a single major telecommunications company handles an average of 800 million wireless calls a day¹. In addition to everyday calls, some are more critical. For example, with first responders, it is vital they can trust their cellular network when responding to a scene. Making sure there is reliable communication makes a huge difference in controlling the unfolding events. A reliable backup power source is vital to ensure continued communication and service.

Considering those critical aspects, a major national telecommunication company needed to find a reliable battery backup power source to ensure continued communication and service. Nationwide emergency and day-to-day operations become totally reliant on the batteries supplying this critical power, even more so in the event of a total blackout. With the customer's coverage ranging across the United States, their batteries must be proven and dependable to ensure no interruption to their services and provide hours of backup power.

THE CLEAR SOLUTION

Following close communication and discussion with the East Penn team, the national telecommunication customer selected the revolutionary Deka Fahrenheit. These batteries feature a breakthrough heat-tolerant VRLA monobloc battery design, that survives up to 3X longer in temperature of 140°F. These capabilities are far beyond the normal life of standard VRLA batteries in uncontrolled environments, providing a 12-year design life at 95°F compared to a standard VRLA 10-year design life at 77°F. A total of 56 batteries were installed across the country in 14 strings of 4 batteries per string.



Deka Fahrenheit[®]
HT30



Trusted Deka Fahrenheit® heat-tolerant (VRLA) batteries provide a longer design life at a higher temperature (12-year @ 95°).

Deka Fahrenheit® HT30

THE RESULTS

During an annual check up on the system, East Penn's service team, Deka Services, conducted a capacity test to monitor performance. With over 4 years in service in an uncontrolled environment (no fans or air conditioning) the batteries were still performing at an extraordinary level. The Deka Fahrenheit batteries were providing average capacity ratings over 100% at the 15-minute rate and over 94% at the 8-hour rate. Losing less than 10% of capacity over four years illustrates the consistent quality and performance of Deka batteries made by East Penn. The batteries remain in the application and will be checked on an annual basis.

THE CONCLUSION

The consistent quality and performance, combined with a truly sustainable solution, makes the Deka Fahrenheit the correct choice for vital backup telecommunication applications. Deka lead batteries are the safe and reliable solution to help you reach your performance, sustainability, and cost goals. Call us today to learn how we can help you succeed.

*1 - Source Article: <https://www.nytimes.com/2020/04/09/technology/phone-calls-voice-virus.html>

PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.**



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