



SANMINA

ELECTRIC VEHICLE CHARGING. 300% INCREASE IN PRODUCTION VOLUME IN ONLY THREE MONTHS



GOAL

AN ELECTRIC VEHICLE CHARGING COMPANY WANTED TO EXPAND THEIR MARKET GLOBALLY. THEY NEEDED A PARTNER WITH THE ABILITY TO RAMP PRODUCTION INITIALLY IN CENTRAL EUROPE AND THEN SCALE GLOBALLY. THEY SELECTED SANMINA IN GUNZENHAUSEN, GERMANY.

BACKGROUND

An electric vehicle charging company had developed a strong home market and wanted to increase volumes and expand market reach to central Europe, UK and USA for their home and commercial chargers. Approximately 230 different components are assembled into the commercial system which provides AC charging at 22 kilowatts of power. The chargers are cloud connected using LTE at frequencies from 850 to 1,900MHz, WiFi (2.4GHz), Bluetooth and powerline communication technology.

WHY SANMINA

Having visited the facility, the customer was impressed with the competence of the Gunzenhausen team. Sanmina had the technical and supply chain expertise to help them achieve their business goals. Sanmina's global footprint would allow them to expand globally without having to invest in manufacturing infrastructure. Sanmina's order fulfillment and aftermarket services would complete the customer's value chain.

SANMINA'S APPROACH

- Sanmina assigned a cross-functional team including engineering, quality, supply chain and operations to the project.
- Sanmina's onboarding process assured timely and thorough implementation and execution.
- A Kanban system was implemented to ensure continuous supply of material to the production line.
- Sanmina recommended a Product Lifecycle Management system to the customer to allow them to more efficiently manage their product database.
- Lean Six Sigma and Poke Yoke approaches were used to optimize the manufacturing process.
- Advanced vision systems were used as part of Sanmina's quality strategy
- Sanmina built a safety system to enclose the 400V AC test systems.
- Test jigs were connected to Sanmina's Manufacturing Execution System – 42Q. This enabled automatic upload of pass/fail data and test log files and analysis of throughput, process yields and failure trends.
- The facility was audited and successfully achieved EU-Directive 2014/32/EU, Module D certification.

THE RESULTS

- 300% increase in production volume in only 3 months.
- By leveraging Sanmina's global footprint the customer was able to establish local market presence.
- Based on the success of the initial commercial charger program, Sanmina was awarded the production of the home electric charger.



For more information,
visit www.sanmina.com

Sanmina Corporation is a Fortune 500 company and a leading global provider of integrated manufacturing solutions, components, products, repair, logistics and after-market services. Recognized as a technology leader, Sanmina provides end-to-end manufacturing solutions, delivering superior quality and support to Original Equipment Manufacturers (OEMs) primarily in the communications networks, cloud solutions, medical, defense and aerospace, industrial and automotive segments. Sanmina has facilities strategically located in key regions throughout the world.

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