

Astrodyne TDI

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HIGH-PERFORMANCE DC EMC/EMI FILTERS FOR EV CHARGING STATIONS

Hackettstown, NJ – December 2022 – To continue to support the EV charging infrastructure, Astrodyne TDI, a global developer and manufacturer of power conversion and EMI/EMC solutions, has developed a new range of high-performance EMI/EMC filters for fast and ultra-fast DC chargers. The new RP695H DC EMI filters combine high performance and compact factors. These high-performance EMI/EMC filters are designed to improve cost and shorten the time-to-market for DC charger OEM.

With electric vehicles (EVs) becoming more popular, there is an ever-growing need for faster-charging options. Due to this, the demand for DC ultra-fast charging infrastructure has skyrocketed. To meet this increasing demand, EV charger manufacturers are working on newer high-power designs. The need for more power, shorter development time frames, and compact designs has also made the agency compliance process a lot more challenging, especially, on the radiated spectrum. The primary contributor to radiated emissions failure is radiated noise on the EV charger output (DC side). This has given rise to a need for high current, high voltage, high-performance DC filters in a compact form factor.

Astrodyne TDI's RP695H series is a high-performance, dual-stage DC EMI/EMC solution that operates up to 1500 VDC. For performance, cost, and weight optimization, this design features a hybrid extruded-molded construction. These features are especially important for ultra-fast DC Charger applications where space and weight are critical. The RP695H filters are offered in 450 A, 600 A, 1000 A, and 1600 A-rated currents and selectable Y-capacitor values from 0 to 2000nF. To ensure peace of mind, Astrodyne TDI can provide a “no-charge” on-site pre-compliance testing to minimize unexpected costs and time to market.

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About Astrodyne TDI

Astrodyne TDI designs and manufactures innovative power solutions for demanding applications worldwide. The company's products include power supplies and EMI filters for industrial, semiconductor manufacturing, medical, consumer appliance, military, and aerospace markets. With over 60 years of power supply design experience, Astrodyne TDI is headquartered in Hackettstown, NJ and has engineering and manufacturing centers in the USA and China. For more information, visit www.AstrodyneTDI.com.

