



UNITRON CONFIRMS 90KVA GPU COMPATIBILITY WITH ALL B787 CONFIGURATIONS RESULTING FROM BOEING LAB VERIFICATION TESTING

There has been a lot of confusion over the past couple years surrounding supposed newly imposed Boeing electrical specifications associated with its B787 aircraft. Among these are the existence of excessive peak transient current demands occurring upon application of aircraft loads and higher than normal kilowatt power demands; both reportedly to be in excess of those traditionally furnished by the 400 Hz GPU community throughout the world. Both of these assertions are mischaracterizations and at a minimum overstatements, without a doubt. Admittedly, there have been issues during non-normal engine starts of the B787 with regard to excessive ripple being generated from some GPU manufacturer's products causing their rejection by the aircraft especially under certain operational conditions. However, simple adherence, to limits defined in the latest revision to the commercial industry aircraft interface standard ISO 6858 assures one of a trouble-free operation without rejection of its GPU. In a majority, industry overload rating profiles for 90 kVA GPUs are more than adequate to provide the kilowatt demands of the B787.

To ensure seamless operation of the standard Unitron LP Model UFC-90 Series Ground Power Units (available in gate mounted, fixed, and mobile configurations) with respect to all conditions of B787 operations including non-normal engine starts, lab tests were recently conducted by Boeing which confirmed that the Unitron GPUs continue to perform in complete compliance to Boeing's requirements for GPU support of their B787 aircraft even after Boeing tightened some aspects of the on-board electrical system specifications imposed on the GPU industry.

Absolutely no field changes are anticipated at this point by Unitron resulting from recent Boeing specification changes. Recent Boeing Lab tests have confirmed both the hardware and software aspects of Unitron's existing standard 400 Hz GPUs are compliant with all the B787 operational requirements. Upon recommendations from Boeing Lab personnel, Unitron has been encouraged to continue to seek even more precision in its output performance parameters to further benefit developments occurring in the all-electric aircraft market. Design enhancements already reduced to practice at Unitron are being brought to the market both in its current UFC Series products and in its UNI Series products this coming year in anticipation of the needs of future all-electric aircraft being considered by the industry. None of Unitron's B787 owners and operators should be required to undergo the inconvenience of updates to GPUs already delivered unless unanticipated field conditions arise.

As Ray Beutel, Partner and Director of Marketing of Unitron LP, stated recently, "To be successful in the Defense/Aerospace markets, Unitron considers it to be essential **to achieve customer satisfaction by providing preferred products and superior service through continuous improvements**"; this being Unitron's Quality Statement.