

Paralleling of RFT-V Circuits

Date: September 20, 2019

Model #: LPS36 -48Vdc to ± 190 Vdc Up-Converter Unit

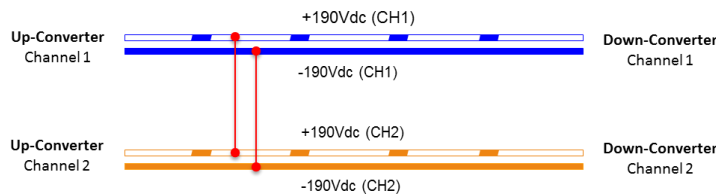
Part #: 0120011-001

Background

One of the techniques used to reduce cable resistance in RFT-V circuits is by paralleling or bonding cable pairs, which is simply a matter of connecting on each end of the cable pair the Tip conductors (+190Vdc) and the Ring conductors (-190Vdc). This meets the safety requirements when the maximum rated power from the LPS36 module is less than 100W per channel.

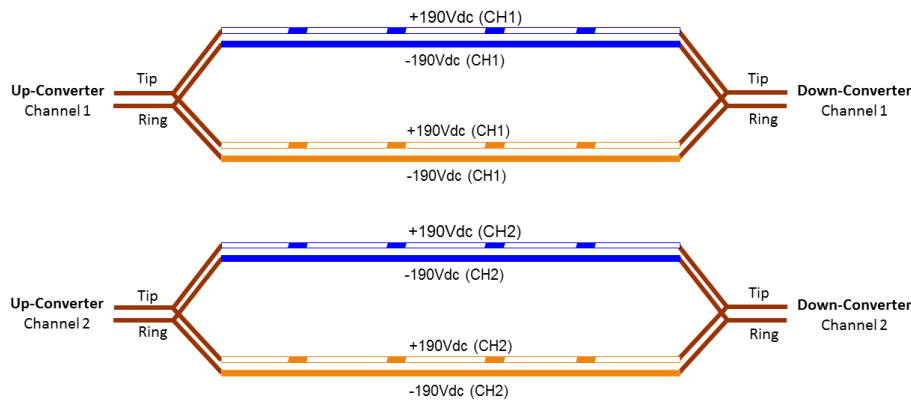
Issue

Paralleling of RFT-V circuits over multiple channels for the purpose of delivering power in excess of 100W to a single load circuit is not permitted (see below diagram for improper cable bonding/paralleling of two channels). This would be in violation of the following safety standards: UL/CSA 60950-21, IEC 60479-1 and ATIS-060003.02016.



Corrective Action

The correct way to perform cable bonding or paralleling is illustrated below for two copper pairs.





For additional assistance or if you have any questions regarding this notification, please contact Alpha Technical Support at 1-888-462-7487 or www.alpha.ca/report-a-problem.

Sincerely,

Satheesh Hariharan
Sr. Product Manager
Alpha Technologies Ltd.
Satheesh.hariharan@alpha.ca