

Features and Specifications

MDI full featured hybrid DC-DC Converters use a flyback topology operating at approximately 200 kHz or 300kHz. The flyback topology is especially well suited for a wide input voltage range and for multiple output voltages. The converters operate over an input voltage range from 5:1 (for the low voltage series) to a range of 1.67:1 (for the 270 V series). The range for the standard 28 VDC parts encompasses the limits of MIL-STD-704A. The "V" series parts of the 28 VDC range can survive the 100 VDC surges of MIL-STD-1275. Standard input to case isolation is 500 VDC for all ranges. Standard output to case isolation is 100 VDC. Standard input to output isolation is 500 VDC. All full featured units combine not only input MIL-STD-461 EMI filters, but also output common mode filters for spike suppression.

The hybrids have circuit features such as current limiting on each output, a programmable power on soft start, open loop OVP protection, an input inhibit, built-in test status pin and a synchronization input. All input functions except output adjust and remote sense are referenced to the input return.