



MODULAR DEVICES, INC.

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An ISO 9001:2008 Registered Company

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MDI pioneered the concept of families of hybrid DC-DC converters that are similar in available output configurations and power ratings, but scaled for different industry standard input power buses, such as 28V, 50V, 70V, 120V and 270V.

Because the size of passive components, such as transformers, inductors and capacitors, increase with power levels, the packaging advantage of full hybrid DC-DC converters diminishes at power levels beyond 100 watts.

For applications needing more than 100 watts, multiple hybrid DC-DC converters can be combined. However, at a certain power level, it is often more advantageous to deliver power from a single, higher power unit.

To meet this higher power need, MDI developed the Model *3696 DC-DC converter family. These units are 500 watt rated modules that provide high reliability power for critical space environment applications needing higher power than full hybrid DC-DC converters can offer.

Five different ranges of input voltage are offered, each tailored to popular satellite bus voltages. The asterisk can be either a 5,7,8,9 or 3 to denote the nominal input bus voltage range of 28V, 50V, 70V,100V or 120V.

Single and dual outputs of 12, 15 and 28 VDC are available in each input bus voltage range, which are designated by the model's suffix. Customer specified output voltages are also available.

To design the *3696, MDI modified a proven 250 watt radiation hardened DC-DC converter, developed by MDI for a high energy physics application, repackaged to incorporate high reliability components and space environments.

The circuit topology of the *3696 provides superior SEU and 100K+ TID performance.

The *3696 converters are constructed with an optimum mixture of hermetic hybrid control circuits and high reliability surface mount components, offering a construction that is suitable for the most demanding space applications, while providing reliable conduction cooled thermal paths for all components.

The units include an input EMI filter and active reverse polarity protection. User specified under voltage lockout is included. Outputs include high attenuation ripple and common mode spike filtering.

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For additional information contact MDI Sales at 631-345-3100 or Email us at sales@mdipower.com.