



MODULAR DEVICES, INC.

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An ISO 9001:2000 Registered Company

For Immediate Release:

Modular Devices, Inc. (MDI) introduces the model 53600 family of 30 watt, radiation hardened, triple output DC/DC converters. These units incorporate MDI's 100K+[®] proton Rad hard technology, a US and international patents pending circuit design that offers total ionizing dose performance of greater than 100Krad at 2:1 margin and no Single Event Upset effect to LET levels in excess of 82MeV*cm²/mg without the use of expensive, long lead, sole source, export controlled (ITAR) components.

The 53600 modules are high efficiency DC/DC converters operating from an 19 to 50 VDC input bus voltage, intended for use in powering analog and digital loads in radiation environment applications such as spacecraft and satellites.

Two different standard types are available. Models 53600-T12 and 53600-T15 deliver the main output at +5 VDC and auxiliary outputs of ± 12 VDC or ± 15 VDC. The same auxiliary outputs are available with a 3.3 VDC main output. All models incorporate a built-in input EMI filter conforming to MIL-STD-461C and operate over the full temperature range of -55C to +125C without derating. Custom versions are available.

Module dimensions are 2.2" by 2.7" by 0.500" (60 X 68.5 X 12.7mm) including rugged six point mounting flange and weigh 119 grams. Housings are full hermetic, parallel seam welded packages.

MDI's proprietary circuit design achieves better than 83% efficiency by using a planar power transformer operating at a fixed frequency of 250 kHz and synchronous output GaAs rectification. "Sync Input" as well as "Sync Output" is provided so multiple modules may be synchronized together. The modules can also be paralleled for higher output currents or redundancy and are overload protected and short circuit proof. Inhibit not (enable/disable) and built in test (BIT) functions are standard design features.

The price of an engineering grade 53600 converter is \$ 3100 each in small quantity. Flight units are priced according to screening level. Delivery is stock to 150 days ARO. MDI also fabricates assemblies of modules to customer specifications.

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For further information, contact Ms. Chris Merl at 631-345-3100