



## VPT - DC-DC Converter

### **guaranteed to 30krad (Si) Including ELDRS for use in Space Power Systems**

BLACKSBURG, VA, April 1, 2008 - VPT Inc., the innovative leader in providing power handling products, today introduced more than 50 DC-DC converter modules specifically designed and manufactured for space applications. Grouped into four product families, these new space DC-DC converters deliver up to 120 watts of output power, operate reliably through harsh radiation environments, and are available for fast delivery at reasonable cost.

“VPT is the first to provide DC-DC power conversion products with a guaranteed radiation tolerance through long-term exposure to low dose radiation, the most typical type that affects the success of the mission,” explained Michael J. Bosmann, Senior Vice President of Sales and Marketing for VPT.

“Years ago we were focused on a total dose of 100krad or more, but over time the industry has learned that continual low dose radiation is much more of a concern and typical of that encountered during the application.

Our new product line satisfies today’s updated reliability requirements for space including the new radiation requirements, small size and light weight mandates, stringent requirements of 100% reliable operation through a wide range of space flight conditions, and fast product availability.”

VPT packages its “S” space series of DC-DC converters in miniature, hermetic, metal cases for reliable power delivery through the extreme temperature, shock, vibration, and radiation environments of space travel. Specific features of the new SVSA, SVHF, SVTR and SVFL product families include: Web: [www.vpt-inc.com](http://www.vpt-inc.com)

- Six to 120 watts of output power in standard single and dual output voltages
- Characterization and guarantee to 30krads (Si) per VPT's RHA plan specified per MIL-PRF-38534, Appendix G, Level P with 2x margin\*
- Characterization and testing for TID (total ionizing dose) at HDR (high dose rate) and LDR (enhanced low dose rate sensitivity -- ELDRS) per VPT's RHA plan\*
- MIL-PRF-38534 Class H element evaluated components standard
- Components selected from database of recommended RH devices
- Designed and manufactured in a facility certified to MIL-STD-883 and MIL-PRF-38534
- Class H (military) and K (space) and qualified to ISO 9001
- Characterization and testing performed at the critical semiconductor component piece-part level (radiation lot acceptance test - RLAT) from traceable semiconductor lots
- Characterization and testing also performed on the converters produced from the same traceable semiconductor lots evaluated during RLAT
- No pure tin - guaranteed
- Fault tolerant design with radiation immune magnetic isolation technology - no optoisolators Wide case temperature operation of -55°C to +125°C with full performance over entire temperature range

\*VPT's certified radiation program per MIL-PRF-38534, appendix G, is currently under review by the Defense Supply Center Columbus (DSCC). Contact DSCC directly at 604-692-0585 for the current status.

Max. Output Power (W)	Model Series	Input DC Voltage (V)	Output Voltage (V)	Radiation Test Data
5	SVSA2800S	15-50	Single 3.3, 5, 5.2, 12, 15	30K Rads HDR & ELDRS
5	SVSA2800D	15-50	Dual $\pm 5$ , $\pm 12$ , $\pm 15$	30K Rads HDR & ELDRS
20	SVHF2800S	15-50	Single 1.9, 3.3, 5, 5.2, 12, 15	30K Rads HDR & ELDRS
20	SVHF2800D	15-50	Dual $\pm 5$ , $\pm 12$ , $\pm 15$	30K Rads HDR & ELDRS
40	SVTR2800S	15-50	Single 2.5, 3.3, 5, 5.2, 12, 15	30K Rads HDR & ELDRS
40	SVTR2800D	15-50	Dual $\pm 5$ , $\pm 12$ , $\pm 15$	30K Rads HDR & ELDRS
120	SVFL2800S	16-40	Single 3.3, 5, 5.2, 12, 15	30K Rads HDR & ELDRS
120	SVFL2800D	16-40	Dual $\pm 5$ , $\pm 12$ , $\pm 15$	30K Rads HDR & ELDRS

Datenblätter unter: <http://www.vpt-inc.com/Products/?cat=18>

Gerne geben wir Ihnen Auskunft zu Preisen und Lieferzeiten, rufen Sie uns an.

Mit freundlichen Grüßen  
Hermann Lindbüchl

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