



Industrial Level Power Solutions

VHR Series DC-DC Converters and EMI Filters

A high reliability, low-cost solution for use in defense, avionics and manufacturing industries.

Features:

- Wide input voltage range: 15 to 50 V
- Wide temperature range: -40 °C to +100 °C
- Isolated converter topology
- Fixed frequency operation
- Soft-start
- Magnetic feedback, no optoisolators
- Inhibit function
- Current-limit protection

Compliance:

- MIL-STD-704
- MIL-STD-461C-F and EN55022 when VHR converters are used with VHR EMI filters
- J-STD-001, ISO-9001, IPC-A-610 Class 3 manufacturing

Packaging:

- Rugged six-sided metal package
- Light weight



VPT[®]

Power Your Critical Mission Today

www.vptpower.com

The VHR series of industrial level DC-DC converters and companion EMI filters from VPT provide cost effective, high reliability solutions for use in defense, avionics and manufacturing industries. The VHR series products leverage decades of VPT's proven heritage in military and aerospace electronics and are designed for non-flight-critical solutions in military, avionics, unmanned systems as well as manufacturing equipment and controls. A wide input voltage range, low input and output ripple, and fixed operating frequency simplify system design while ensuring operating success in the most rugged of environments. The VHR series products are available off-the-shelf and ready for fast delivery.

[VHR SERIES DC-DC CONVERTERS]

Power Level [W]	VHR Series Models	Input Range [V]	Output [V]
5	VHR5-2800S/D	15 – 50	Single: 3.3, 5, 12, 15 Dual: ±5, ±12, ±15
15	VHR15-2800S/D	15 – 50	Single: 3.3, 5, 12, 15 Dual: ±5, ±12, ±15
30	VHR30-2800S/D VHR30-2800T	15 – 50 9 – 80	Single: 3.3, 5, 12, 15 Dual: ±5, ±12, ±15 Triple: 3.3, 5, 12, 15
100	VHR100+2800S/D	16 – 40	Single: 3.3, 5, 7, 12, 15, 28 Dual: ±12, ±15

[VHR SERIES EMI FILTERS]

Max Output Current [A]	VHR Series Model	Input DC Voltage	For Use With
1	VHRF1-28	0 – 50	VHR5-2800S/D, VHR15-2800S/D
3	VHRF3-28	0 – 50	VHR5-2800S/D, VHR15-2800S/D, VHR30-2800S/D/T
10	VHRF10-28	0 – 50	VHR30-2800T, VHR100+2800S/D
20	VHRF20-28	0 – 50	VHR100+2800S/D

For complete data, see datasheets at www.vptpower.com

Decades of proven COTS heritage, including:

- Advanced Hawkeye Warfighter
- ASELPOD Targeting & Nav System
- Bradley Fighting Vehicle
- Euro Hawk UAS
- F-35 Lightning II
- Global Hawk UAV
- IRST (Infra-red Search & Track System)
- Lynx Helicopter
- Ohio Class Submarine
- Predator UAV
- Stryker Tank
- Titan Armored Vehicle
- Watchkeeper UAV

VPT powers aerospace, avionics, military and other critical programs globally. For a comprehensive programs list, please see www.vptpower.com.

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