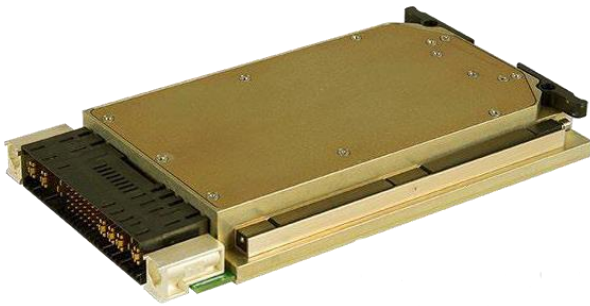




VITA 62 VPX SOLUTIONS - DC/DC

DPM2192 SERIES

DPM2192 SERIES *DC/DC POWER SUPPLY*



PRODUCT HIGHLIGHTS

- VITA 62 1" Pitch
- SOSA™ ALIGNED
- 3U FORM FACTOR
- 600W Steady State
- NED (Optional)
- OPERATING TEMP: -55°C to +85°C
- EMI: Compliant to MIL-STD-461G (5μ LISN)
- Environmental: MIL-STD-810
- :Input Options
 - MIL-STD-704
 - Mil-STD-1275

For quotes and customization requests, please
contact us at (877) 634-0982 or sales@digipwr.com



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Ver. 1.0

Electrical Specification

DC Input: <ul style="list-style-type: none">18V to 48V DC Turn-on by Input voltage below 21V. Turn off after 30Sec under 20V LineWork through 12V & 100V 1275E Surges	DC Outputs: <ul style="list-style-type: none">VS1: 12V / 50A3.3Vaux: 3.3V / 15A	Isolation: <ul style="list-style-type: none">200V Input to Output & Chassis.100V Output to chassis
Line Load Regulation <ul style="list-style-type: none">12V Output 11.85V to 12.15V3.3V Output 3.28V to 3.42V, 3.25V to 3.45V parallel-PCS.	Efficiency <p>Up to 87%.</p>	EMC <p>Mil-STD-461G 5μH LISN¹ CE101, CE102, CS101, CS114, CS115, CS116 Notes: All tests performed with Static resistive Load.</p>
Ripple and Noise <p>Typical less than 50mV (max 1%) across 0.1μF capacitor with 10 μF on Load. Note: under all temperature range, Input voltage 18V to 36V.</p>	System Management Options: <ul style="list-style-type: none">Simplified IPMIIPMC Tier 2 (Tier 3 Upgradable)	Typical Quiescent Current <ul style="list-style-type: none">Inhibited Output TBD (28V Input, 3.3Vaux only).Disabled Outputs TBD (28V Input, Outputs Off).
Load Transients <p>Outputs dynamic response less than 5% for Load steps 60% - 90%. Outputs returns to regulation <1mSec.</p>		
Protections		
Input Current Inrush: <ul style="list-style-type: none">Bus capacitance \approx 500μF.Output Turn-on inrush Input current < 1A	Outputs Over Voltage <ul style="list-style-type: none">12V Active OVP3.3Vaux 3.9V Zener	Over Load Protection: <p>Hiccup Over-load / Short Circuit Protection. Typically, 110%-130% Load.</p>
Input Under /Over Voltage Protection <ul style="list-style-type: none">Turn-off above 50V.Turn-off under 17V steady state.Turn-off after 30Sec below 22V. Note: T.H can be modified.	Over Temperature Protection <p>Thermal shutdown at Unit temperature of 90-105$^{\circ}$C. Auto Recovery 90\pm5$^{\circ}$C (unit Edge, wedge lock side)</p>	

About Digital Power

Digital Power Corporation designs and manufactures full custom, value-added, and standard comprehensive power solutions for the most demanding applications in the defense, healthcare, telecom, and industrial markets.



Environmental Specification.

VITA 47.1 CC4/CCW7 NT4 V3 OS2 C4 AV2 SF1/SF3 CS5

Temperature:

- Operational -55°C to 85°C unit edge, -55°C to 81°C cold wall.
- Exceed Vita 47 CC4.
- Storage -55°C to 125°C
- Designed for 600 Thermal Cycles
Note: Plug-in unit edge surface temperature is measured on the plug-in unit

Altitude:

- Mil-STD-810G Method 500.5 procedure I & II
- Storage / Air Transport: 40kft
- Operation / Air carriage: 70kft

Rapid Decompression

Designed to meet per Vita 47.1

Corrosion Resistance

- Mil-STD-810G, Method 509.5.
- VITA47 Class SF1, SF3
- VITA47 Class SF2 TBD

Fungus

Does not support Fungus growth per Mil-HDBK-454, Guideline 4.

Humidity

- Mil-STD-810G, Method 507, up to 95% RH.
- Optional: 100% condensation, consult factory.

Vibration & Shock

- Vita47 Vibration Class V3.
- Vita 47 Operational Shock Class OS2
- Vita 47 Bench Handling Shock (Connector not protected, may be damaged).

Reliability

348,000 Hours,
calculated IAW MIL-HDBK-217F Notice 2
at +65 °C, GF

ESS

Environmental Stress Screening available, please contact factory for details

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Flexible Power Solutions

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