

# Challenge Accepted

**W-IE-NE-R US is proud to present the toughest in VPX power supply technology.**

**When faced with the most complex challenges, our flexible, ruggedized platform is sure to meet or exceed even the harshest requirements in the industry.**



W-IE-NE-R Power Electronics

Type: VPX-Power Supply

Part No.: 0VPX.340DMA

Serial No.: 4881054

Input: 20-35V DC

Fuse:

Power: 400W

Output-No.:	0	1	2	3	4	5	6	7
-Name	VS1	VS2	VS3	Aux1	Aux2	Aux3		
V	12	3,3	5	3,3	+12	-12		
A	15	20	40	4	1	1		
pos. Pin								
neg. Pin								

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## Features

### Multi-stage Input Filter

- Protection from reverse polarity, over-voltage, and input voltage spikes of up to 250V as per MIL-STD1275D

### 28V Power with Wide Input Range

- 28V DC Prime Power with extended input voltage range of 15 to 40V
  - Allows for operation during a "Cranking Surge" as per MIL-STD-1275D, which would drop the input voltage to 16V for a duration of 30s
  - VPX336 can even ride through "Initial Engagement Surge" as defined by MIL-STD-1275E, dropping the input voltage down to 12V for 1s

### Discrete Power Circuit, High Efficiency, Flexible Output Configuration

- State-of-the-art switching power technology for high efficiency
- Highly configurable design using discrete components
- VPX336 is designed for maximum output current, supporting configurations having either a stronger 12V, 5V or a more evenly distributed power over the 3 main output channels while maintaining high efficiency of close to 90%

### Health Monitoring

- Embedded microprocessor with health monitor provides system status and control
  - Allows for monitoring of input voltage and current as well as the status, voltage, and currents of all output rails
- USB connector allows monitoring and programming of additional features (for instance power sequencing)

### Standards-Driven Design, Tested, and Compliant

- Dimensions: 3U x 4HP (0.80" slot) per VITA 62.0
- MIL-STD Compliance
  - Compliant with MIL STD 461, 704 and 1275 as per VITA 62
  - VPX340 has been successfully tested at an accredited 3rd party test lab. Test reports available upon request
    - MIL-STD-461F (EMI) Compliance: Designed and tested in compliance with sections CE102, CS101, CS114, CS115, CS116.
    - MIL-STD-704 Compliance: Designed and tested in compliance for normal and abnormal transients and distortion spectrum. External hold-up circuit optional.
    - MIL-STD-1275D Compliance: Designed and tested in compliance for ripple, surge, & spikes.

### Environmental

- Conduction-cooled
- MIL-STD-810G compliant
- Operating temperature range: -40°C to +85°C
- Manufactured with standard acrylic conformal coating to withstand sand, dust and salt atmosphere
- Parylene coating available by request



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