

## Aegis Power Solution

### VME225

#### VME Power Converter

(Rev A05, 09/26/11)



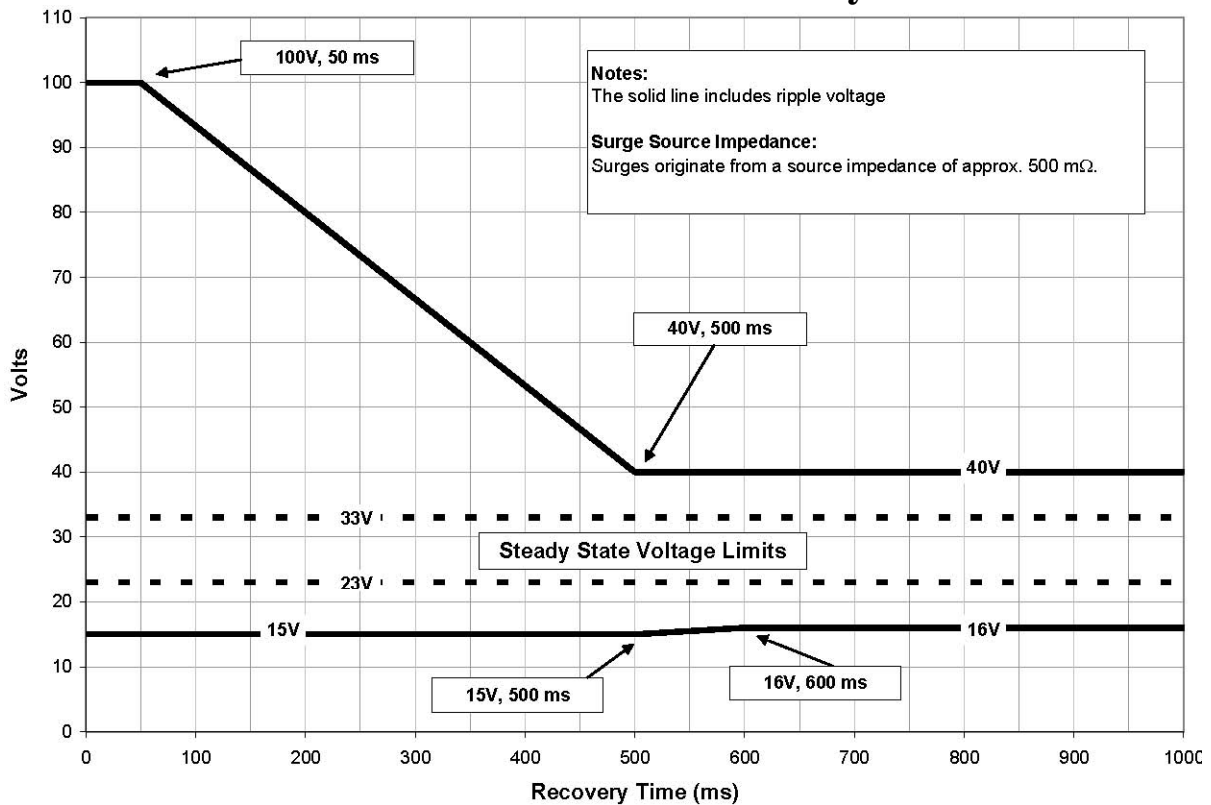
**Specifications: (25°C, nominal line, 100% load unless otherwise specified).**

<b><u>DC Input Voltage:</u></b>	18VDC to 36VDC Operating Range Meets Mil-Std-704A/E/F and Mil-Std-1275D Continuous 22VDC to 36VDC, 28VDC nominal 100VDC 50msec transient, see attached transient Curve
<b><u>DC Input Line Current:</u></b>	12.4A Max @ 22VDC 9.7A typical @ 28VDC input 271W Max.
<b><u>Input Power:</u></b>	271W Max.
<b><u>Output Power:</u></b>	225W Max. all outputs combined
<b><u>Output Voltages:</u></b>	See below Table 1
<b><u>Efficiency:</u></b>	83% Typical
<b><u>Startup Time:</u></b>	500 millisecond Max.
<b><u>Voltage Setpoint,</u></b>	
<b><u>Line/Load Regulation:</u></b>	+/- 2%, see Table 1 for exceptions.
<b><u>Output Ripple:</u></b>	50mV pk-pk 5V, 3.3V; 150mV pk-pk 12V Max. (20MHz BW)
<b><u>Current Limit:</u></b>	Short Circuit protected, automatic recovery
<b><u>Temperature:</u></b>	-40°C to +75°C Operating baseplate wedgelocks 4 output -40°C to +85°C Operating baseplate wedgelocks 1 or 2 output -40°C to +100°C Non-operating
<b><u>Size:</u></b>	3U x 160mm x 4hp (0.8")
<b><u>Weight:</u></b>	1.2 lb
<b><u>Connector:</u></b>	1ea Positronics PCIM30W15M400A1 or equivalent
<b><u>Vibration:</u></b>	Mil-Std-810 Method 5.14 Procedure 1
<b><u>Shock:</u></b>	Mil-Std-810 Method 5.16 Procedure 1
<b><u>Humidity:</u></b>	0-95% non-condensing
<b><u>EMI:</u></b>	Mil-Std-461E/F CE102, CS101

Part Order Number	# Out	Output V1	Output V2	Output V3	Output V4	Max Power
VME225-001	2	5VDC 112W	3.3VDC 112W			225W 85°C
VME225-002	2	+12VDC 112W	-12VDC 112W			225W 85°C
VME225-003	4	5VDC 112W	3.3VDC 82W	+12VDC 4W	-12VDC 4W	202W 75°C
VME225-004	4	3.3VDC 112W	5VDC 100W	+12VDC 4W	-12VDC 4W	220W 75°C
VME225-005	1	5VDC 224W				225W 85°C
VME225-006	1	3.3VDC 224W				225W 85°C
VME225-007	2	5VDC 198W	3.3VDC 26W			225W 85°C
VME225-008	3	5VDC 112W	+12VDC 60W	-12VDC 24W		196W 85°C
VME225-009	1	+12VDC 225W				225W 85°C
VME225-010	3	5VDC 60W	3.3VDC 50W	+12VDC 112W		222W 85°C
VME225-011	2	5VDC 180W	3.3VDC 45W			225W 85°C
VME225-012	3	5VDC 100W	3.3VDC 60W	+12VDC 50W		210W 85°C

Note: The 3.3VDC <60W output +/-3% over line/load/temp.  
Overall Efficiency for units with 3.3VDC < Low, typically 80%.

**Table 1: Transient Immunity**



Unit ride through 15V, 500ms @ 225W max. output power  
Unit shut down below 15V input, automatic restart