

Aegis Power Solution

1PH404

VME Power Converter

(Rev A02, 06/08/10)

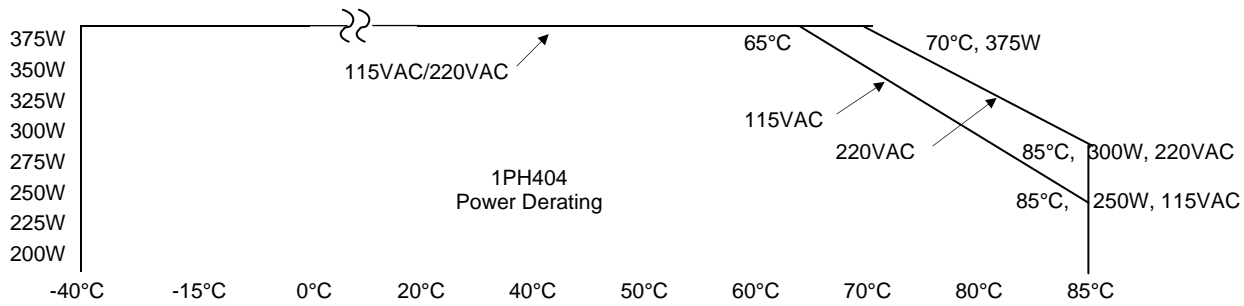


Specifications: (25°C, nominal line, 100% load unless otherwise specified).

<u>AC Input Voltage:</u>	Normal 95VAC to 250VAC, 360Hz to 440Hz. Transient 70VAC to 270VAC, 100 msec. Mil-Std-704F Normal and abnormal range.
<u>AC Input Line Current:</u>	4.1A @ 115VAC, 2.1A@220VAC.
<u>Input Power:</u>	455W@ 115VAC, 450W@220VAC , typical.
<u>Power Factor:</u>	0.98 typical 360-440Hz.
<u>Input Frequency:</u>	360-440Hz.
<u>Output Power:</u>	375W Max. All outputs combined.
<u>Holdup Time:</u>	2 msec typical.
<u>Output Voltages:</u>	(-001) +5VDC 40A, 50mVp-p (20MHz BW), 200W. +3.3VDC, 45A, 50mVp-p (20MHz BW), 150W. +12VDC, 5A, 150mVp-p (20MHz BW), 60W. -12VDC, 1A, 150mVp-p (20MHz BW), 12W.
<u>Efficiency:</u>	83%/115VAC, 86%/220VAC typical. full load.
<u>Startup Time:</u>	500 millisecond Max.
<u>Voltage Setpoint,</u>	
<u>Line/Load Regulation:</u>	+/- 2.5% (any combination).
<u>Current Limit:</u>	Short Circuit protected, automatic recovery.
<u>Temperature Regulation:</u>	+/-0.01% / deg C.
<u>Size:</u>	6U x 160mm x 5hp(1") see mech dwg
<u>Weight:</u>	3.5 lb. typical
<u>Connector:</u>	Positronic, PCIM30W15M400A1
<u>Vibration:</u>	MIL-STD-810F, Method 514.5, Procedure 1
<u>Shock:</u>	MIL-STD-810F, Method 516.5, Procedure 1
<u>Humidity:</u>	0-95% non-condensing
<u>EMI:</u>	Mil-Std-461E, CE102, CS101

1PH404 **115/220VAC 1phase, 360-440Hz 375W Power Card**

Power Derating for Temperature and Input Voltage per below Graph



Baseplate Cooling temperature at Wedgelocks

Order Info: 1PH404-001 28VDC Out 375W
 4 Outputs as specified above

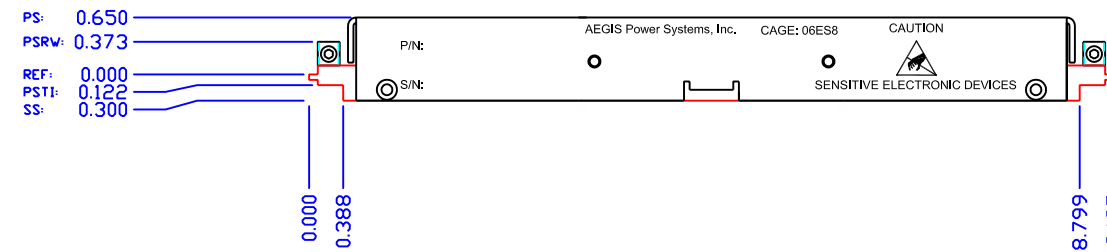
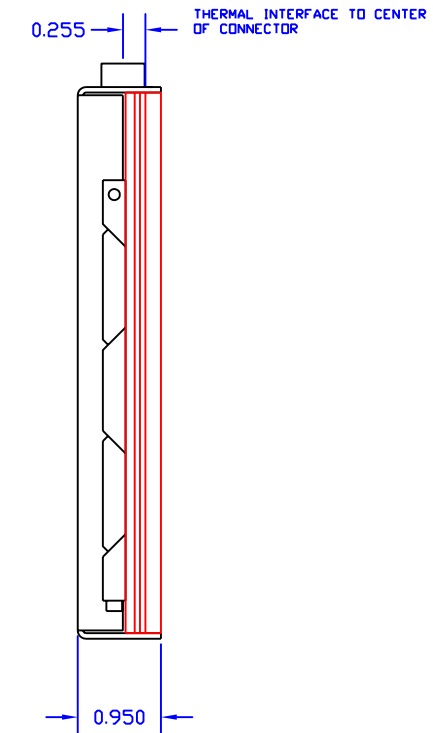
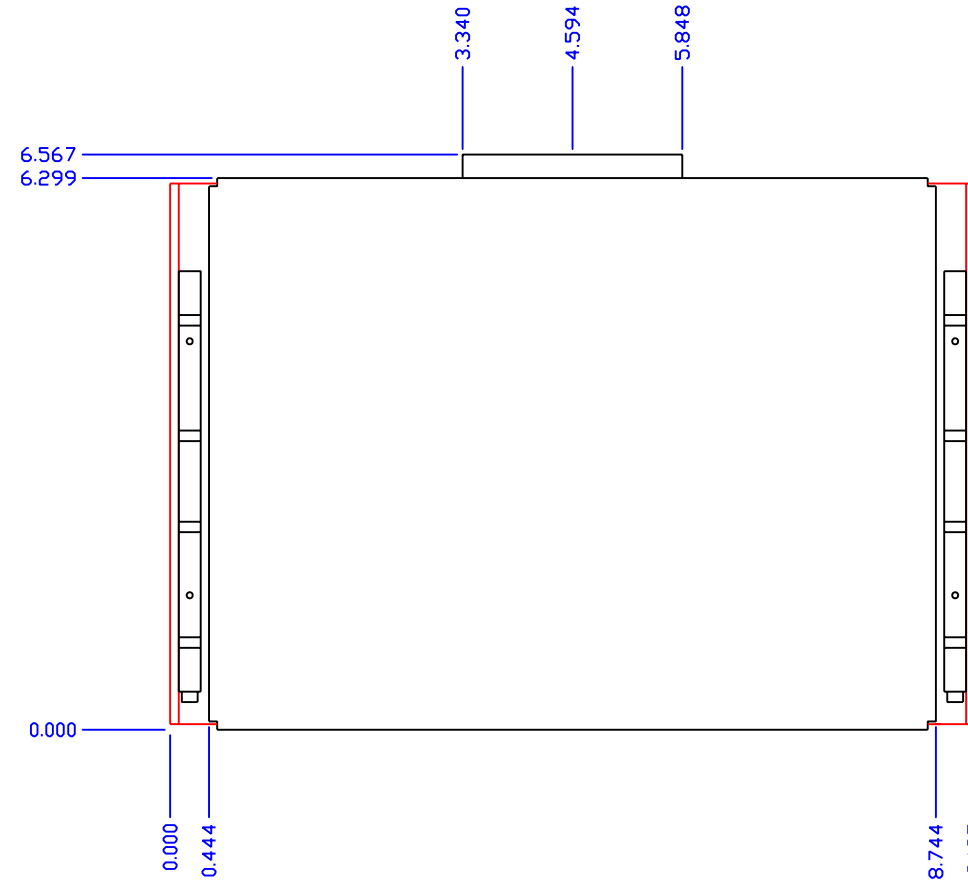
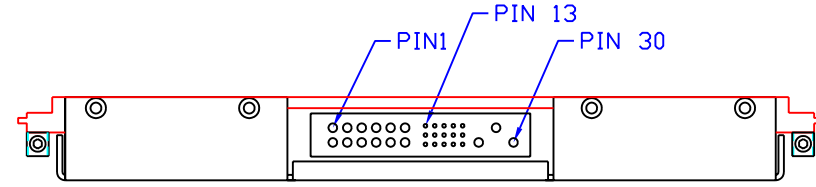
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A01	INITIAL RELEASE	09/24/09	MVM
	A02	REV A02 BASEPLATE	09/30/09	MVM
	A03	MOVED WEDGE LOCATION	10/06/09	MVM

NOTES: UNLESS OTHERWISE SPECIFIED

- TYPE 1, 6U PLUG-IN UNIT - PRIMARY SIDE RETAINER. 1.00 INCH PITCH. (FIGURE 10 OF VITA 48.2, 12/26/07)
- CONNECTOR POSITRONIC PCIM30W15M400A1
- PIN1-12 = 28AMP RATING, PIN13-27 = 3AMP RATING, PIN28,29 AND 30 = 40AMP RATING

- J1-1 - V1 RETURN
- J1-2 - V2 RETURN
- J1-3 - V1 RETURN
- J1-4 - V2 RETURN
- J1-5 - V1 RETURN
- J1-6 - V3 RETURN
- J1-7 - V1 +OUT
- J1-8 - V2 +OUT
- J1-9 - V1 +OUT
- J1-10 - V2 +OUT
- J1-11 - V1 +OUT
- J1-12 - V3 +OUT
- J1-13 - V4 RETURN
- J1-14 - V4 +OUT
- J1-15 - V1 +SENSE
- J1-16 - V1 SHARE+
- J1-17 - V1 SHARE-
- J1-18 - V1 -SENSE
- J1-19 - V3 SHARE+
- J1-20 - V3 SHARE-
- J1-21 - NC
- J1-22 - V4 SHARE+
- J1-23 - V4 SHARE-
- J1-24 - V2 SHARE+
- J1-25 - V2 SHARE-
- J1-26 - V2 -SENSE
- J1-27 - V2 +SENSE
- J1-28 - CHASSIS
- J1-29 - NEUTRAL
- J1-30 - LINE

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		
FRACTIONS	DECIMALS	DEGREES
± N/A	.XX ± .02	± 5
	.XXX ± .005	

CONTRACT NO.		AEGIS POWER SYSTEMS MURPHY, NORTH CAROLINA	
APPROVALS	DATE	TITLE	
DRAWN MVM	06/16/09	VME SINLE PHASE PFC 375W MECHANICAL LAYOUT	
CHECKED		AEGIS P/N: 1PH404	
PROJ. ENG.		SIZE	FSCM NO.
MFG.		D	06ES8
QUALITY		DWG NO.	REV
		1PH404-M00	A03
		SCALE	SHEET
		1/1	1 OF 1

NEXT ASSY	USED ON
APPLICATION	
DO NOT SCALE DRAWING	