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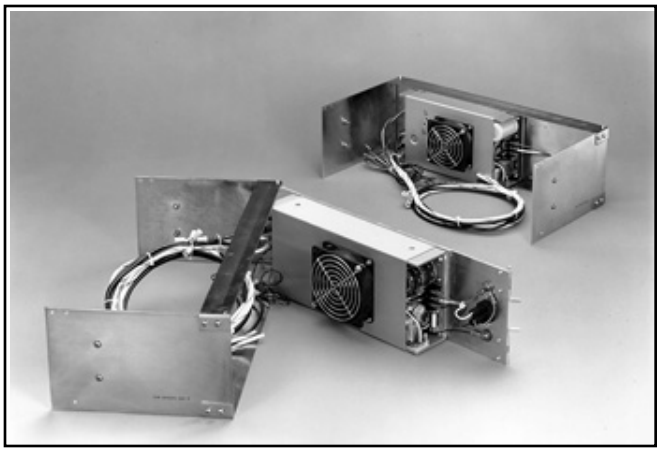
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Find the *Abaco Systems / VMIC VMIVME-PS350-000* at our website: *Click HERE*

VMIVME-PS150 TO -PS750

Swing Out Power Supplies 150 to 750 W Specifications

- 75 to 80 percent efficiency
- Meets international and U.S. safety requirements
- Output regulated ±1 percent
- Self-cooling
- Automatic AC line selection
- Thermo protection
- Remote sense
- Compact
- Short protection
- Soft start
- Reverse voltage protected
- 16 ms holdup time
- 0 to 50 °C (122 °F)
- Dual power cords
- MTBF: 80,000 to 100,000 hours (217 F)



INTRODUCTION — VMIVME-PS150 to -PS750 switching regulated power supplies operate at either 115 or 230 VAC line voltage through automatic AC autoranging. These power supplies are intended to be used to supply 5 VDC with optional multioutput of ±12 or ±15 VDC.

These power supplies are comprised of highly reliable power modules mounted on a releasable hinged plate inside a frame that mounts to VMIC's VMIVME-120 (20-slot chassis) or VMIVME-220-160 (20-slot extruded chassis).

The power supply is equipped with a ball-bearing cooling fan that provides proper cooling to achieve full ratings at 50 °C ambient temperature.

The DC wiring is sized according to the maximum current capability of the power supply at 50 °C ambient temperature and is wired so the installer can mount the power supply to a chassis, then cut, strip, and terminate each DC power lead to the appropriate backplane connector(s). (System integration is available with the purchase of a chassis and backplane.) An assortment of crimp terminals (lugs) are supplied with each power supply to facilitate termination to the backplane.

In computing DC power requirements, observe the maximum VMEbus slot current specifications and total backplane current limits.

The VMIVME-PS150 to -PS750 power supplies are equipped with an internationally and U.S. recognized standard CEE-22 power receptacle and are rated up to 250 VAC 15 A. Power is supplied by one of two power cords supplied with each power supply.

SPECIFICATIONS

AC Input: 90 to 132 VAC, 180 to 264 VAC, 47 to 63 Hz. AC autoranging automatically selects proper AC line voltage range to enable power operation at either 115 or 230 VAC without user intervention.

Adjustability: All outputs are user adjustable ±5 percent; for exceptions, please see the Ordering Information, Note 1.

Line and Load Regulation: ±1 percent (of nominal DC output voltage) over AC input range (90 to 132/180 to 264 VAC) and 0 to 100 percent load change. The 5 V (V_1) output requires a minimum load of 10 percent (to maintain good regulation of the power supply). For exceptions, please see the Ordering Information, Note 2.

Ordering Options

Sept. 24, 1997 800-000023-000 E	A	B	C	–	D	E	F
VMIVME-PS	–			0	–			

ABC = Wattage (See Polychart 1)
D = Power Fail Options
0 = With Power Fail to Backplane
1 = Without Power Fail
8 = With Power Fail to User Terminal
EF = Output Options
00 = No Aux Outputs
12 = ±12 V Outputs
15 = ±15 V Outputs

Notes

1. PS160-012/112, V_1 and V_2 are user adjustable ±5 percent, V_3 is not adjustable. PS150-000/100, PS250-000/100, PS350-000/100, and PS500-000/100 output is adjustable ±10 percent minimum.
2. PS160-012/112, V_1 output requires a minimum load of 20 percent.
3. Dual current ratings define continuous and peak currents. The peak current shown can be delivered for a maximum period of 30 seconds.
4. PS160-012/112 is 75 percent.
5. PS700-012/112 and PS750-012/112 MTBF is 80,000 hours.

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
E-mail: info@vmic.com Web Address: www.vmic.com
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Ripple and Noise: Less than 0.2 percent RMS, 1 percent P-P, or 100 mV, whichever is greater.

Remote Sense 5 V Output (V_1): Compensates for 250 mV total line drop. Open sense lead protected.

Temperature Coefficient: 0.02 percent per degree C.

Stability: 0.1 percent over 8 hours after 30 minutes warm-up.

Transient Response 5 V Output (V_1): Output voltage returns to within 1 percent in less than 500 µs for a 50 percent load change. Peak transient does not exceed 5 percent.

Overload Protection: All outputs are protected against overload and short circuit (Power foldback). Automatic recovery upon removal of fault.

Overvoltage Protection 5 V Output (V_1): Protects load against power supply induced overvoltage. Trip point is factory set so that the output voltage cannot exceed 6.8 V (136 percent).

Peak Output Current: See Polychart 1. Also see the Ordering Information, Note 3.

Soft Start: The in-rush AC currents for 115 and 230 VAC operation are listed in Polychart 1.

Brown Out Protection: Holds regulation with AC input voltage down to 85 VAC up to 340 VAC (autoranging will change over about 170 VAC).

Thermal Protection: Shuts down the power supply if overheated. Automatic recovery.

Holdup Time: 16 ms minimum after removal of power, at nominal line voltage, with full DC load.

Temperature Range: 0 to 50 °C (32 to 122 °F) full ratings. Derate to half power at 70 °C (158 °F).

Efficiency: 80 percent typical. For exceptions, please see the Ordering Information, Note 4.

Safety Agencies: Approved to UL478, UL 1950, SCA22.2 bulletins 1402c and No. 234, IEC950, VDE 0805/ VDE 0806 Class 1 SELV and EN 60 950.

Conducted RFI: Meets FCC part 15, subpart J and VDE 0871, Class A. Contact the factory for information on VDE 0871 Class B compliances.

Output Isolation: Isolated from ground 50 V

Reverse Voltage: Protected against reverse voltage up to supply current rating.

Reliability: Over 100,000 hours MTBF, when calculated in accordance with MIL-HDBK-217. See exception in the Ordering Information, Note 5.

Cooling: Equipped with a ball-bearing cooling fan that provides proper cooling to achieve full ratings at 50 °C (122 °F) ambient temperature.

Option: Power fail, provides TTL 0, 5 ms before out of regulation band upon loss of AC power. VMEbus compatible, provides 48 mA sink current capability. Wired to backplane -0BC. Wired to user terminal block -8BC.

Power Cord: Two power cords are supplied with each assembly (115 and 230 VAC). 230 V power plug is furnished by the user.

TRADEMARKS

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The summation of multiple outputs and the wattage of each output must not exceed the maximum total Watt ratings specified for same.

VMIVME-PS ABC-DEF										
MODEL NUMBER = (Watts)										
0/8 = POWER FAIL 1 = NONE										
AUX OUTPUT VOLTS										
INTERNAL FUSE RATING FB										
ASSEMBLED P-N 350-000116-XXX										
REPLACEMENT POWER MODULE P/N ONLY 340-000 XXX–XXX										
SOFT START IN-RUSH AC POWER CURRENT SURGE										
MAXIMUM TOTAL WATTS										
5 VDC OUTPUT AMPS										
AUX OUTPUTS										
ABC	-D	EF	Amp	XXX	XXX–XXX	115 VAC	230 VAC	WATTS	AMPS	
150	– 0	00	7	001	035 – 101	16 A	32 A	150	30	NONE
150	– 1	00	7	101	035 – 107	16 A	32 A	150	30	
150	– 8	00	7	801	035 – 107	16 A	32 A	150	30	
160	– 0	12	7	002	040 – 001	16 A	32 A	160	30	±12 V 1.5 A
160	– 1	12	7	102	040 – 003	16 A	32 A	160	30	
160	– 8	12	7	802	040 – 003	16 A	32 A	160	30	
250	– 0	00	10	003	035 – 001	16 A	18 A	250	50	NONE
250	– 1	00	10	103	035 – 007	16 A	18 A	250	50	
250	– 8	00	10	803	035 – 007	16 A	18 A	250	50	
350	– 0	12	10	004	036 – 002	10 A	18 A	350	50	+12 V 8/12 A, –12 V 4 A
350	– 1	12	10	104	036 – 102	10 A	18 A	350	50	
350	– 8	12	10	804	036 – 102	10 A	18 A	350	50	
350	– 0	00	10	005	037 – 001	80 A	20 A	350	70	NONE
350	– 1	00	10	105	037 – 007	80 A	20 A	350	70	
350	– 8	00	10	805	037 – 007	80 A	20 A	350	70	
400	– 0	15	12	006	034 – 010	80 A	20 A	400	50	±15 V 6.5 A
400	– 1	15	12	106	034 – 110	80 A	20 A	400	50	
400	– 8	15	12	806	034 – 110	80 A	20 A	400	50	
400	– 0	12	12	007	034 – 000	80 A	20 A	400	70	+12 V 10/16 A, – 12 V 6 A
400	– 1	12	12	107	034 – 100	80 A	20 A	400	70	
400	– 8	12	12	807	034 – 100	80 A	20 A	400	70	
500	– 0	15	12	008	034 – 011	80 A	20 A	500	70	±15 V 8 A
500	– 1	15	12	108	034 – 111	80 A	20 A	500	70	
500	– 8	15	12	808	034 – 111	80 A	20 A	500	70	
500	– 0	12	12	009	034 – 003	80 A	20 A	500	80	+12 V 10/16 A, –12 V 10 A
500	– 1	12	12	109	034 – 103	80 A	20 A	500	80	
500	– 8	12	12	809	034 – 103	80 A	20 A	500	80	
500	– 0	00	15	010	038 – 001	80 A	20 A	500	100	NONE
500	– 1	00	15	110	038 – 007	80 A	20 A	500	100	
500	– 8	00	15	810	038 – 007	80 A	20 A	500	100	
700	– 0	12	15	011	039 – 001	90 A	30 A	700	100	±12 V 12/20 A, –12 V 10 A
700	– 1	12	15	111	039 – 014	90 A	30 A	700	100	
700	– 8	12	15	811	039 – 014	90 A	30 A	700	100	
750	– 0	12	15	012	039 – 007	90 A	30 A	750	120	
750	– 1	12	15	112	039 – 020	90 A	30 A	750	120	
750	– 8	12	15	812	039 – 020	90 A	30 A	750	120	

PEAK OUTPUT CURRENT RATINGS < 30 SECONDS

Polychart 1

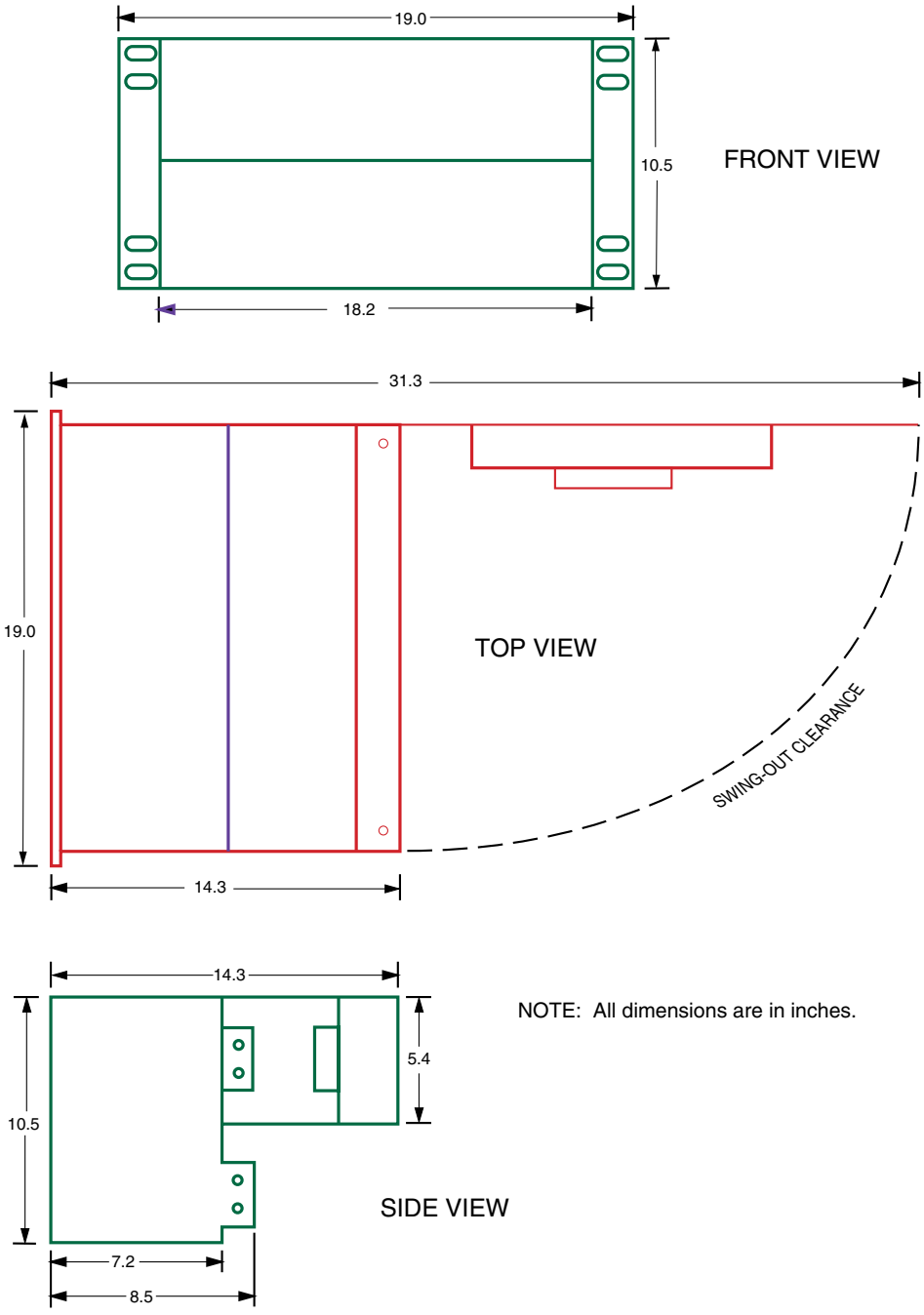


Figure 1. Outline and Nominal Dimensions of Board Chassis with Swing-Out Power Supply Mounted

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