

PART NUMBER: VD-120A

Features

Low cost, high reliability
105°C output capacitor
Universal AC input range
High efficiency, low temperature rise
Soft-start circuit, limiting AC surge current
Short circuit, overload, over-voltage protected
Compact size, light weight
100% full load burn-in test

•Built-in EMI filter, low ripple noise

DESCRIPTION: dual output switching power supply



	CH1	CH2
DC output voltage	5V	12V
Output V. tolerance	±2%	±6%
Output rated current	12A	5A
Output current range	2-12A	0.5-5A
Ripple & noise	60mVp-p	120mVp-p
Line regulation	±0.5%	±1.0%
Load regulation	±0.5%	±5.0%
DC output power	120W	
Efficiency	78%	
DC voltage adj.	CH1:+10,-5%	
Input voltage range	88~132VAC/176~264VAC selected by switch, 47~63Hz; or 248~370VDC	
AC current	2.5A/115V 1.25A/230V	
Inrush current	cold start 35A	
Leakage current	<3.5mA/240VAC	
Overload protection	105%~135% shutoff	
	AC recycle to restart	
Over voltage protection	CH1:5.75V~6.75V	
Temperature coefficient	±0.03% / °C (0~50°C) ON +5V output	
Set up, rise, hold up time	200ms, 50ms, 20ms	
Vibration	10~500Hz, 2G 10 min./1 cycle, period of 60 min. each axes	
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, for 1 min.	
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms min.	
Working temp., humidity	-10°C~+60% (refer to output derating curve), 20%-90% RH	
Storage temp., humidity	-20°C~+85°C, 10%-95% RH	
Dimensions	7.83x4.33x1.97inches (199x110x50mm)	
Weight	1.94lbs. (0.88Kgs)	
Safety standards	UL1950, TUV EN60950	
EMC standards	CISPR22 (EN55022) CLASS B, IEC801-2,3,4, IEC555-2 verification	

Notes:

- 1. All parameters are specified at 230VAC input, rated load, 25°C 70% ambient
- 2. Tolerance includes set up tolerance, line regulation, load regulation
- 3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47 uF capacitor
- 4. Line regulation is measured from low line to high line at rated load
- 5. Load regulation is measured from 0% to 100% rated load
- 6. Each output provides up to maximum current, but total load can not exceed max. output power
- 7. C2, C3, C11 must be removed

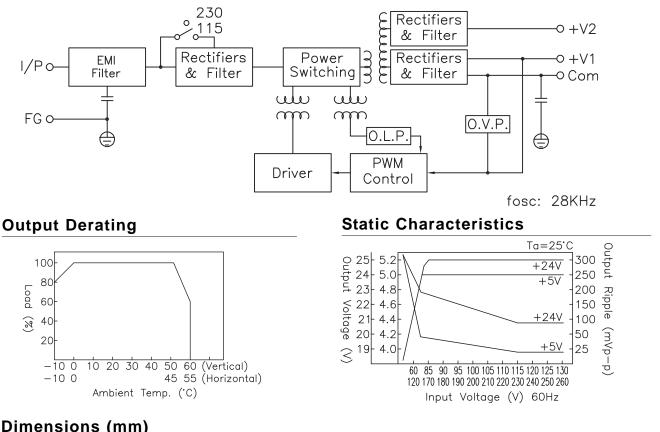
*V-Infinity reserves the right to make changes to its products or to discontinue any product or service without notice, and to advise customers to verify the most up-to-date product information before placing orders. V-Infinity assumes no liability or responsibility for customer's applications using V-Infinity products other than repair or replacing (at V-I's option) V-Infinity products not meeting V-I's published specifications. Nothing will be covered outside of standard product warranty.



PART NUMBER: VD-120A

DESCRIPTION: dual output switching power supply

Block Diagram



Dimensions (mm)

192 5 172 100 Case: 906 Terminal Pin No. Assignment 12 ۲ Pin 1,2: AC Input Pin 3 : FG Pin 4 : DC Output +V2 ß m ഗ Pin 5 : DC Output Com <u></u>о Pin 6 : DC Output Com Pin 7 : DC Output +V1 Pin 8 : DC Output +V1 110 97 00 6 ۲ t ł 7 37 i8 Ð 199 ഹ ഹ 190.5 ശ് m. DΩ \$ 4 t 25 50 3-M3 ŝ 20 6 16. Ŧ Ū 20 ---- 159