

**PART NUMBER:** VD-120A

**DESCRIPTION:** dual output switching power supply

**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



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

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