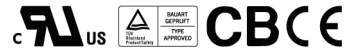
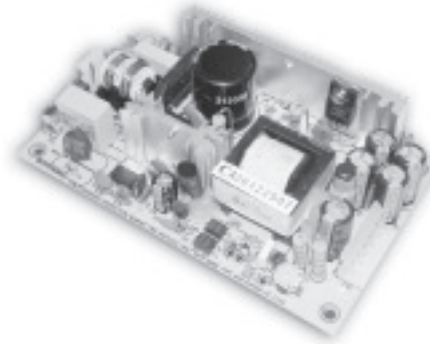


PART NUMBER: VPS-45 series

DESCRIPTION: Switching Power Supply

features

- universal AC input/Full range
- low leakage current <0.5mA
- short circuit protection
- over load protection
- over voltage protection
- cooling by free air convection
- 100% full load burn-in test
- fixed switching frequency at 65KHz
- 2 year warranty



MODEL	preset voltage	output tolerance ²	output current		line regulation ⁴	ripple & noise ³ (pp)	efficiency
			18 CFM	convection			
VPS-45-3.3	3.3V	±3%	10.7 A	8 A	± 1%	80 mV	69%
VPS-45-5	5V	±3%	10.5 A	8 A	± 1%	100 mV	74%
VPS-45-7.5	7.5V	±3%	7.0 A	5.4 A	± 1%	100 mV	75%
VPS-45-12	12V	±2%	4.4 A	3.7A	± 1%	100 mV	76%
VPS-45-13.5	13.5V	±2%	3.9 A	3.3 A	± 1%	100 mV	77%
VPS-45-15	15V	±2%	3.5 A	3 A	± 1%	100 mV	77%
VPS-45-24	24V	±2%	2.2 A	1.9 A	± 1%	100 mV	78%
VPS-45-27	27V	±2%	1.95 A	1.7 A	± 1%	100 mV	78%
VPS-45-48	48V	±2%	1.1 A	1 A	± 1%	100 mV	78%

Notes:

1. All parameters not specifically mentioned are measured at 230VAC input, rated load, 25°C 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. Output provide up to maximum current, but related to maximum output power.
6. Connect earth ground to either M1, M2, or tab F for EMI purposes

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: VPS-45 series

DESCRIPTION: Switching Power Supply

INPUT

parameter	conditions/description	min	nom	max	units
input frequency		47		440	Hz
input voltage		90		264	V ac
		127		370	V dc
input current	At 115 VAC			0.8	A
	At 230 VAC			0.56	A
inrush current	peak measured at 115 VAC at full load, cold start			15	A
	peak measured at 230 VAC at full load, cold start			30	A

OUTPUT

parameter	conditions/description	min	nom	max	units
turn on delay				800	mS
rise				30	mS
hold up time				60	mS
output over-voltage	115% to 135%				

PROTECTION CIRCUIT

parameter	conditions/description
overload	53-75W (3.3 v: 36~55w)Hiccup mode, recovers automatically after fault condition is removed

GENERAL AND SAFETY

parameter	conditions/description	min	nom	max	units
operating temp.	refer to output derating curve	-10		60	°C
storage temp.		-20		85	°C
operating humid.	Non-condensing	20%		90%	RH
storage humid.	Non-condensing	10%		95%	RH
EMC	CISPR 22/EN55022 class B, EN61000-3-2,-3, EN6100-4-2,3,4,5,6,8,11, ENV50204, EN55024, Light industry level				
safety	UL60950, TUV EN60950-1 approved				
leakage current	Regular type @ 240VAC			0.75	mA
vibration	2G 10 min. /1 cycle for 60 min on X, Y and Z Axis	10		500	Hz
isolation voltage (HI-POT)	Applied for 1 minute Primary to secondary: Primary to earth ground: secondary to earth ground:	500 / 100M Ohms 500 / 100M Ohms 500 / 100M Ohms			VDC VDC VDC
withstand voltage	Applied for 1 minute Primary to secondary: Primary to earth ground: secondary to earth ground:	3000 1500 500			VAC VAC VAC
temp. coefficient	±0.5% / ° C	0		50	°C



PART NUMBER: VPS-45 series

DESCRIPTION: Switching Power Supply

MECHANICAL

parameter	conditions/description	min	nom	max	units
weight				190	grams
enclosure	5(L) x 3(W) x 1.1(H) PCB only				inches

INPUT CONNECTOR - (CN1)

parameter	conditions/description
AC input	Molex Part No. 5277-02 (2 pins) Suggested mating plug: Molex Part No. 5915 with 5914 crimp terminals

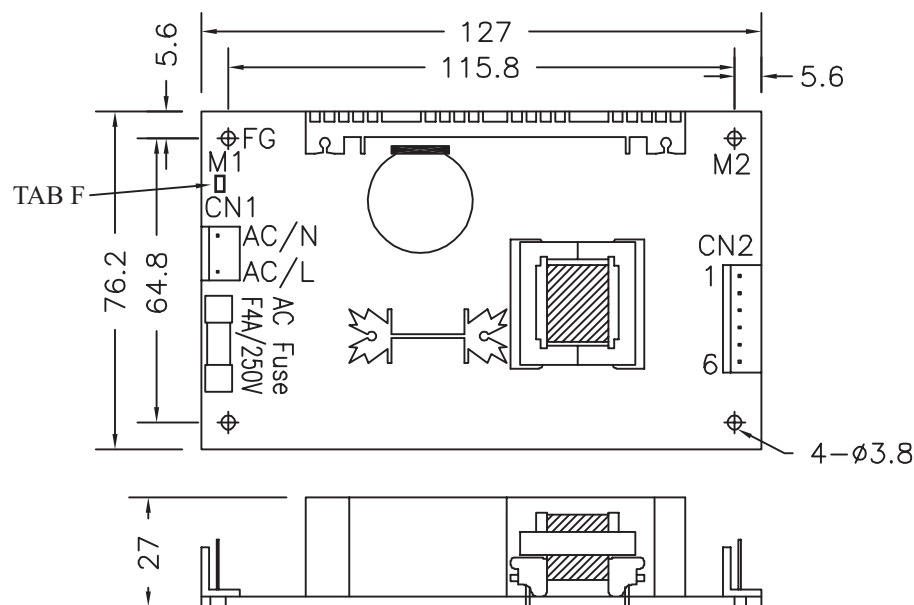
OUTPUT CONNECTOR - (CN2)

parameter	conditions/description
output (option 1)	Molex Part No. 5273-06 (6 pin) Output pin assignment, V+ (Pins 1-3), V- (Pins 4-6) Suggested mating connector: Molex Part No. 5915 with 5914 crimp terminals

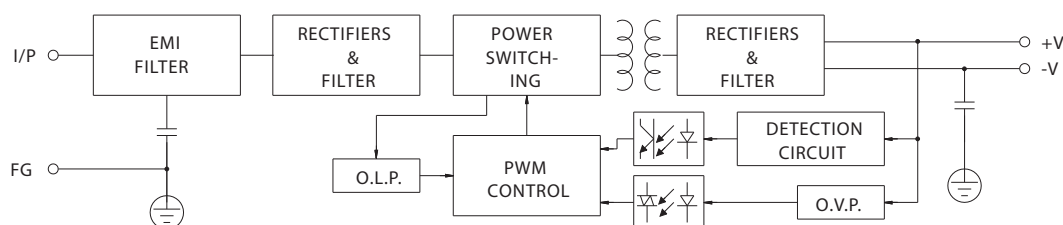
PART NUMBER: VPS-45 series

DESCRIPTION: Switching Power Supply

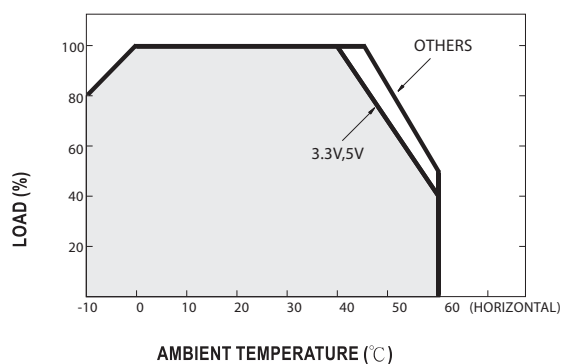
DIMENSIONS (mm)



BLOCK DIAGRAM



OUTPUT DERATING



STATIC CHARACTERISTICS

