

UNIVERSAL INPUT AC TO DC INTERNAL SWITCHING MODE SINGLE OUTPUT EXTRA LOW PROFILE POWER SUPPLIES 50 WATT APS50VI SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- EXTRA LOW PROFILE OPEN FRAME OR BOX
- HIGH QUALITY INDUSTRIAL GRADE
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- UL/CSA/TUV APPROVALS
- EMI/RFI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typ. 85-264VAC
Input Connector: Barrier-Strip Screw Terminal Block or Mini PCB Terminal Block.
Input Frequency: 47-63Hz
 (Consult factory for 440Hz operation)
Inrush Current: 16A peak at 264VAC
Input Current: 1.0A @ 115VAC, 0.45A @ 230VAC
Dielectric Withstand: Meet IEC950
 3,000VAC-Output/Input
 1,500VAC-Input/GND
 500VAC-Output/GND
EMI/RFI: Meet CISPR EN55022 B.& FCC B
Hold-up Time: 13mS @ 115VAC, 60mS @ 230VAC
Earth Leakage: Less than 0.3mA @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Connector: Barrier-Strip Screw Terminal Block
Line Regulation: VO1 typ. $\pm 0.1\%$
Load Regulation: Main O/P VO1 typ. $\pm 0.1\%$
Noise & Ripple: VO1 1% peak to peak max.
OVP: VO1 MAIN O/P, +6.2V $\pm 0.4V$ for 5V O/P
Adj.: VO1 MAIN O/P only, -10% to OVP
Overload Protection: 120-150% max. power
No Load Operation: No damage
Overshoot: No voltage spike
Max. cont. output power: No fan cooling 50W

GENERAL SPECIFICATIONS:

Efficiency: Typ. 75-80%
Switching Frequency: Fixed freq. 88KHz
Circuit Topology: Fixed freq. flyback circuit
Transient Response: Output voltage returns in less than 3mS following a 50% load change
Safety Standard: UL1950/EN60950 Class I

Operating Temperature: 0-50°C
Storage Temperature: -20 to +85°C
Temperature Coefficient: 0.03% / °C
Cooling: Free air convection cooling.
Construction format: L-Bracket or box.
Industrial Grade : High quality Industrial Grade



OUTPUT VOLTAGE/CURRENT RATING CHARTS

SINGLE OUTPUT:

L-bracket Format(without cover)

MODEL NO.	MAIN O/P VO1 @ ★		
	TYP.	VOLT.	PEAK
APS50VI-10 N	10.0A	5V	11.0A
APS50VI-11 N	4.2A	12V	4.5A
APS50VI-12 N	3.4A	15V	4.0A
APS50VI-13 N	2.2A	24V	2.5A
APS50VI-14 N	1.7A	32V	1.8A
APS50VI-19 N	13.0A	3.3V	15.0A

Enclosure Box Format(with cover)

MODEL NO.	MAIN O/P VO1 @ ★		
	TYP.	VOLT.	PEAK
APS50VI-10 N	8.0A	5V	11.0A
APS50VI-11 N	4.2A	12V	4.5A
APS50VI-12 N	3.4A	15V	4.0A
APS50VI-13 N	2.1A	24V	2.5A
APS50VI-14 N	1.6A	32V	1.8A
APS50VI-19 N	10.0A	3.3V	15.0A

Symbols: "★"OVP built-in. "@"Adjustable.

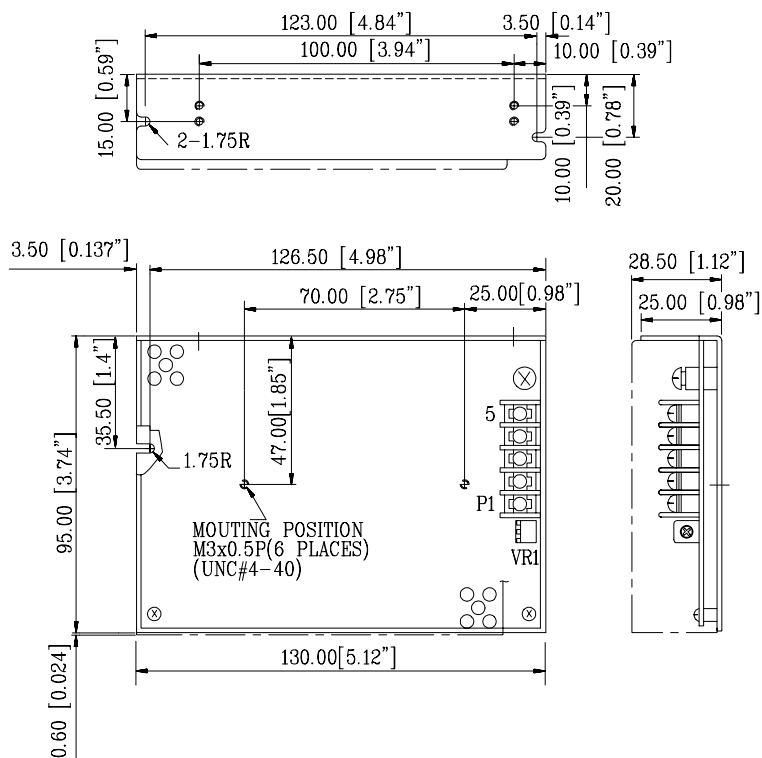
Remark: Peak output less than 60 seconds. Peak currents can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS:MM (INCHES)

WEIGHT: Box 400 g (14.1 Oz.)

POWER DENSITY: 2.36W/Cubic Inch

L-B 332 g (11.7 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

INPUT CONNECTOR P1

PIN NO	ASSIGNMENT
P1-5	AC-LINE
P1-4	AC-NEUTRAL
P1-3	AC-GROUND

OUTPUT CONNECTOR P1

PIN NO.	ASSIGNMENT
P1-2	DC COMMON
P1-1	VO1

P1: Barrier-Strip Terminal block
Pitch 0.325" (8.25mm)