

UNIVERSAL INPUT AC TO DC INTERNAL SWITCH MODE SINGLE OUTPUT EXTRA LOW PROFILE POWER SUPPLIES 54 WATT APS51VI SERIES



FEATURES:

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

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typical 85-264VAC
Input Connector: Molex 5273(vertical)
Input Frequency: 47-63Hz
(Consult factory for 440Hz operation)
Inrush Current: 35A peak at 264VAC
Input Current: 1.3A @ 115VAC, 0.65A @30VAC
Dielectric Withstand: Meets IEC950
3,000VAC-Output/Input
1,500VAC-Input/GND
500VAC-Output/GND
EMI/RFI: Meet CISPR EN55022 B & FCC B
No Load Operation: No damage
Overshoot: No voltage spike
Hold-up Time: 10mS @ 115VAC, 50mS @ 230VAC
Earth Leakage: Less than 0.5mA @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Connector: Molex 5273 (vertical)
Line Regulation: Typical 0.1%
Load Regulation:
Main O/P VO1 typical 1%
Aux. O/P VO2/VO3 typ. 2.0% with PR
Noise & Ripple: Typ.1% peak to peak maximum
OVP: VO1 MAIN O/P@+6.2V, 0.4V for 5V O/P
Adj.: VO1 MAIN O/P only, -10% to OVP
Overload Protection: 120-150% max. power
Maximum continuous output power:
Without fan cooling 54 Watts
Power Fail Signal: Available (Option)

GENERAL SPECIFICATIONS:

Efficiency: Typical 70%
Switching Frequency: Fixed freq. 70KHz
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°C to +85°C
Temperature Coefficient: 0.03% per °C
Cooling: Free air convection cooling
Construction format: L-Bracket format
High Quality Industrial Grade

OUTPUT VOLTAGE/CURRENT RATING CHARTS

DUAL OUTPUT:

MODEL NO.	MAIN O/P VO1 @ ★			AUX.+VO2 ● or -VO3 ●		
	Typ. Amp	Volt	Peak Amp	Typ. Amp	Volt	Peak Amp
APS51VI-29	9.0A	+3V	10.0A	1.8A	+12V	2.0A
APS51VI-29n	9.0A	+3V	10.0A	0.9A	-12V	1.0A
APS51VI-20	8.0A	+5V	9.0A	1.0A	-5V	1.0A
APS51VI-21	8.0A	+5V	9.0A	1.5A	+12V	2.0A
APS51VI-21n	8.0A	+5V	9.0A	0.9A	-12V	1.0A
APS51VI-22	8.0A	+5V	9.0A	1.2A	+15V	2.0A
APS51VI-22n	8.0A	+5V	9.0A	0.8A	-15V	1.0A
APS51VI-23	8.0A	+5V	9.0A	0.8A	+24V	1.0A

TRIPLE OUTPUT:

MODEL NO.	MAIN O/P VO1 @ ★TYP.			AUX.O/P +VO2 ● or †			AUX.O/P -VO3 ●		
	Typ. Amp	Volt	Peak Amp	Typ. Amp	Volt	Peak Amp	Typ. Amp	Volt	Peak Amp
APS51VI-39	8.0A	+3V	10.0A	1.6A	+12V	2.0A	0.6A	-12V	1.0A
APS51VI-30	6.0A	+5V	8.0A	1.5A	+12V	2.0A	0.5A	-12V	1.0A
APS51VI-31	6.0A	+5V	8.0A	1.5A	+12V	2.0A	1.0A	-5V	1.0A
APS51VI-32	6.0A	+5V	8.0A	0.8A	+24V	1.0A	0.5A	-12V	1.0A
APS51VI-33	6.0A	+5V	8.0A	1.2A	+15V	1.6A	0.5A	-15V	1.0A

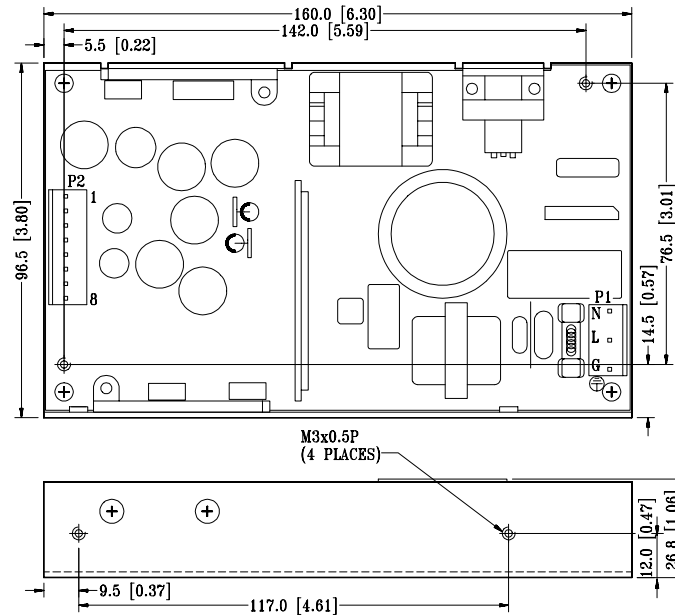
Symbols: "★" OVP built-in. "@"Adjustable. "†" Stacked on main O/P. "●" Installed with Post Regulator (PR).

Remark: (1) At least 20% of typical main output current is required to maintain stated regulation.

(2) Peak output, less than 60 Sec., Peak current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS: MM (INCHES) **WEIGHT:** L-B 374 g (13.2 Oz.)

POWER DENSITY: 2.16W/Cubic Inch



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

INPUT CONNECTOR P1

PIN NO.	ASSIGNMENT
P1-1 (G)	AC-GROUND
P1-3 (L)	AC-LINE
P1-5 (N)	AC-NEUTRAL

Mating: Molex 5196 or Equivalent.

OUTPUT CONNECTOR P1

PIN NO.	ASSIGNMENT
P2-1,2	+VO1
P2-5	+VO2
P2-7	-VO3
P2-3,4,6	DC COMMON

Mating: Molex 5196 or Equivalent.