

UNIVERSAL INPUT AC TO DC U-BRACKET OPEN FRAME DUAL OUTPUT INTERNAL SWITCHING POWER SUPPLIES 31 WATT APS31VI SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- COMPACT U-BRACKET OPEN FRAME FORMAT
- 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: Typ. 85-264VAC
Input Connector: V-M/Molex 5273
Input Frequency: 47-63Hz
(Consult factory for 440Hz. operation)
Inrush Current: 20A peak at 264VAC
Input Current: 0.6A @ 115VAC, 0.3A @ 230VAC
Dielectric Withstand: Meets IEC950
3,000VAC-Output/Input
EMI/RFI: Meet CISPR PUB.22 Class B
& FCC CLASS B
Hold-up Time: 10ms @ 110VAC, 50ms @ 230VAC
Overshoot: On turn-on, turn off or power
fail, no voltage spike
Power Fail Signal: Not available
No Load Operation: No damage at no load
Earth Leakage: Less than 0.25mA @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Connector: Molex 5273 V-M
Line Regulation: Typ. 0.1%
Load Regulation:
Main O/P VO1 typ. 1.0%
Aux. O/P VO2 typ. 2.0%, with PR
Noise & Ripple: Typ. 50 mV peak to peak.
OVP: VO1 MAIN O/P only, @ +6.2V 0.4V
Adj.: VO1 MAIN O/P only, -10% to OVP
Overload Protection: 125-150% max. power
Max. cont. output power: 31 Watts

GENERAL SPECIFICATIONS:

Efficiency: Typ. 72%
Switching Frequency: Fixed frequency 65KHz
Circuit Topology: Fixed freq. flyback circuit
Transient Response: Output voltage returns in
less than 3mS following a 50 load change

Operating Temperature: 0-50°C
Storage Temperature: -20°C to +85°C
Temperature Coefficient: 0.04% per °C
Cooling: Free air convection
Construction: U-Bracket Open frame
Safety Standard: UL1950/EN60950 Class I

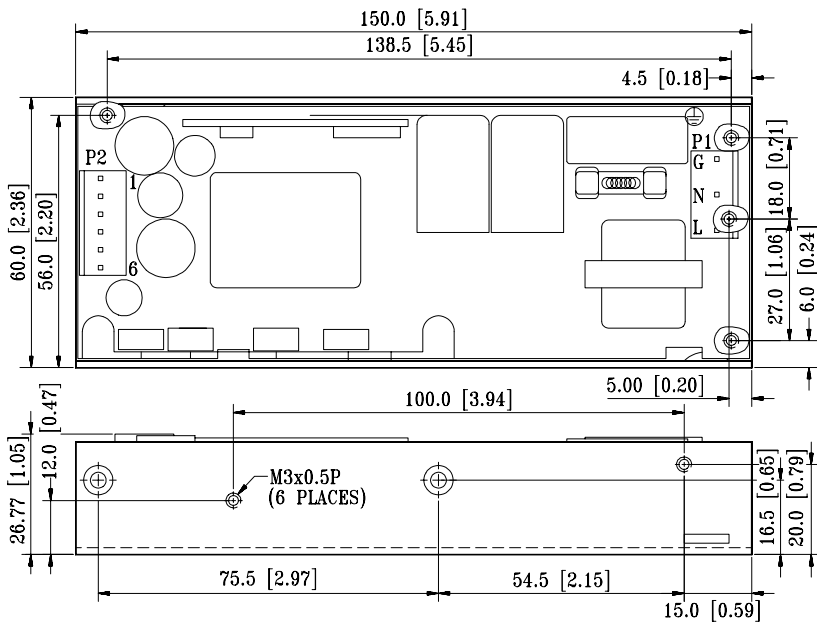
OUTPUT VOLTAGE/CURRENT RATING CHARTS

DUAL OUTPUT:

MODEL NO.	MAIN O/P VO1@ ★ TYP. VOLT. PEAK	AUX. VO2 ■ TYP. VOLT. PEAK
APS31VI-20	5.0A +5V 6.0A	1.0A + 5V 1.0A
APS31VI-21	3.6A +5V 6.0A	1.0A +12V 1.0A
APS31VI-22	3.0A +5V 4.0A	1.0A +15V 1.0A
APS31VI-23	3.6A +5V 4.0A	0.5A +24V 1.0A
APS31VI-24	1.5A +12V 2.0A	1.0A -12V 1.0A
APS31VI-25	1.5A +15V 2.0A	1.0A -15V 1.0A

Symbols: "★" "OVP built-in. "@"Adjustable. "" Floating (or isolated) output. "■" 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: 255g (8.99 Oz.)
POWER DENSITY: 2.18W/Cubic Inch



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

INPUT CONNECTOR P1

PIN NO	ASSIGNMENT
P1-L	AC-LINE
P1-N	AC-NEUTRAL
P1-G	AC-GROUND

Mating: Molex 5196 or equivalent

OUTPUT CONNECTOR P2

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

Mating: Molex 5196 or equivalent