



Size: 4.33 x 2.36 x 1.18"

### Input

Input Voltage	85-264 VAC
Input Frequency	47-63Hz
Inrush Current	20A Max @ 230 VAC Cold Start
Input Current	0.7A @ 115 VAC / 0.3A @ 230 VAC Typical
Hold-Up Time	40ms @ 115 VAC / 200ms @ 230 VAC Full Load
Leakage Current	<300 $\mu$ A @ 230 VAC

### Output

Minimum Load	20% of V1 only
Line Regulation	$\pm 0.1\%$ typ.
Load Regulation	V1 = $\pm 1\%$ / V2 = $\pm 3\%$ / V3 = $\pm 1\%$ typ
Ripple & Noise	$\pm 1\%$ typ. pk-pk @ 20MHz
Overload Protection	125-150% of max power
OverVoltage Protection	6.2V, $\pm 0.4$ V
Adjustment	V1 only, $\pm 10\%$
Transient Response	voltage returns < 3mS following a 50% load change

### Features:

- \* Universal AC Input (90-264 VAC)
- \* Quad Outputs
- \* Power Good Signal
- \* Small Open Frame or L-Brack DesignPackage
- \* Worldwide Safety Approvals
- \* EN55022 & FCC Class B Emissions
- \* Extended Hold-Up Time (up to 200ms @ 230 VAC Input)
- \* CE Mark

### General

Efficiency	70% Typ.
Switching Frequency	40-150KHz
Operating Temperature	0 to 50°C full load, derate 2.5% per °C to 70°C max.
Storage Temperature	-20°C to +85°C
Cooling	Free Air Convection
Temp Co-Efficient	0.04% per °C
Topology	Free Running Flyback
Power Good Signal	Available on V1 Only

### EMC & Safety



Emissions EN55022 "B", FCC Class B

Safety Approvals  
UL/cUL 1950  
TUV EN60950  
CE Mark (LVD)

### Model Number

### Outputs

APS19VI-10	5V @ 4.0A
APS19VI-11	12V @ 1.5A
APS19VI-12	15V @ 1.6A
APS19VI-13	24V @ 0.8A
APS19VI-20	+5V @ 3.0A / -5V @ 0.2A
APS19VI-21	+5V @ 2.6A / 12V @ 0.5A (floating)
APS19VI-22	+5V @ 2.6A / 15V @ 0.4A (floating)
APS19VI-23	+5V @ 2.6A / +24V @ 0.25A
APS19VI-30	+5V @ 2.2A / +12V @ 0.5A / -12V @ 0.2A
APS19VI-31	+5V @ 2.0A / +12V @ 0.5A / -5V @ 0.2A
APS19VI-32	+5V @ 2.0A / +24V @ 0.3A / -12V @ 0.2A
APS19VI-33	+5V @ 2.0A / +15V @ 0.3A / -15V @ 0.2A

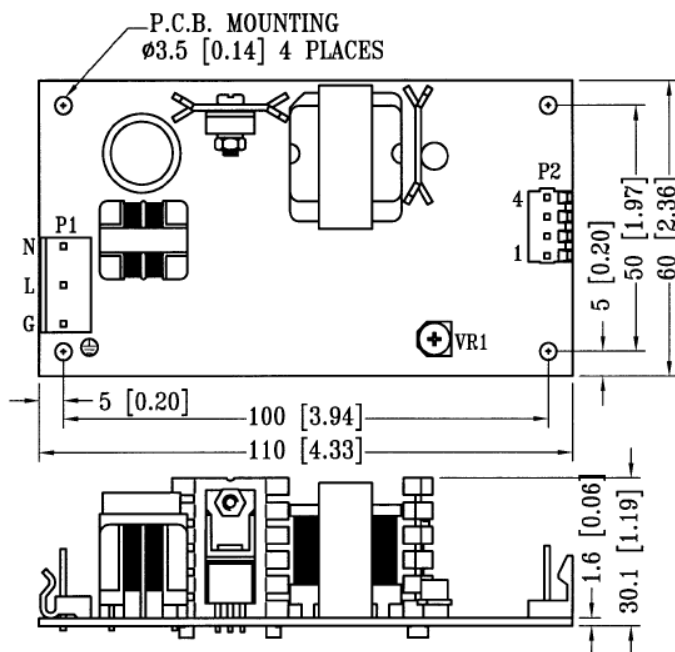
Add Suffix "-G" for Gaming Applications  
(< 500uA Leakage Current & Class A Emissions)



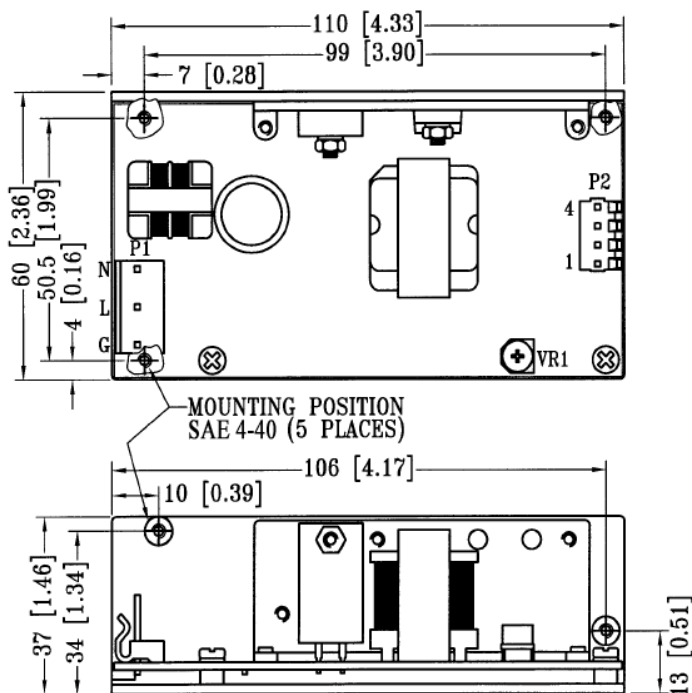
All Advanced Power Solutions (APS) products will be RoHS compliant. Products that are compliant will bear the suffix "-LF" in their part number. APS will continue to ship non-RoHS product until all inventory has been consumed unless customer's have specifically ordered the parts with the "-LF" suffix.

**Mechanical Specifications:**

**OPEN  
FRAME  
MODELS:**



**L-BRACKET  
MODELS:**



WEIGHT: PCB Version = 148g (5.20z) / L-Bracket Version = 223g / (7.90z)

**INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT:**

INPUT: AC LINE = P1-L / AC NEUTRAL = P1-N / P1-G

OUTPUT: COMMON = P2-1 / V1 = P2-2 / V2 (POSITIVE) = P2-3 / V2 (NEGATIVE) or V3 = P2-4

Mating connector: P1 Molex 5196, P2 Molex 5196 or 3069