



Size: 3.15 x 5.12 x 1.6"

Input

Input Voltage	90-264 VAC
Input Frequency	47-63Hz
Inrush Current	65A Max @ 230 VAC Cold Start
Input Current	1.7A @ 115 VAC / 0.75A @ 230 VAC Typical
Hold-Up Time	11ms @ 115 VAC / 60ms @ 230 VAC Full Load
Leakage Current	<400 μ A @ 230 VAC

Features:

- * Universal AC Input (90-264 VAC)
- * Compact U-Frame Package
- * Worldwide Safety Approvals
- * Remote Sense & Power Fail Signals
- * Class B Emissions
- * CE Mark

General

Efficiency	82% Typical
Switching Frequency	63KHz
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	25cfm airflow required
Temp Co-Efficient	0.04% per °C
Topology	Fixed Frequency Forward Circuit

Output

Minimum Load	10% minimum load on V1 Only
Peak Load	120% of rated load <10 secs & 10% duty cycle
Line Regulation	$\pm 0.5\%$ Typical
Load Regulation	$\pm 1\%$ of V1, $\pm 5\%$ others
Ripple & Noise	2% pk-pk max
Over Voltage Protection	115-135% of V1 only
Remote Sense	compensates up to 250mv of V1 only
Adjustment	$\pm 10\%$ of V1 only
Overload Protection	>135% of rated load
Transient Response	<3ms for 50% load step

EMC & Safety

Emissions	CISPR PUB 22 Class B FCC Class B
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Safety Approvals	UL/cUL1950 Class I EN60950 CE Mark (LVD)
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Model Number

Outputs

APS102VI-10	5V @ 20.0A
APS102VI-11	12V @ 8.5A
APS102VI-12	15V @ 6.8A
APS102VI-13	24V @ 4.2A
APS102VI-13B	24V @ 3.0A
APS102VI-14	28V @ 3.6A
APS102VI-15	36V @ 2.8A
APS102VI-16	48V @ 2.0A
APS102VI-19	3.3V @ 25.0A
APS102VI-20	5.0V @ 10.0A / 5.0V @ 10.0A
APS102VI-21	5.0V @ 10.0A / 12.0V @ 4.0A
APS102VI-22	5.0V @ 10.0A / 15.0V @ 3.0A
APS102VI-23	5.0V @ 10.0A / 24.0V @ 2.0A
APS102VI-23E	6.5V @ 7.5A / 24.0V @ 2.0A
APS102VI-24	12.0V @ 4.0A / 12.0V @ 4.0A
APS102VI-25	15.0V @ 3.4A / 15.0V @ 3.4A
APS102VI-290	3.3V @ 10.0A / 5.0V @ 10.0A
APS102VI-291	3.3V @ 12.0A / 12.0V @ 4.0A
APS102VI-292	3.3V @ 12.0A / 15.0V @ 3.0A
APS102VI-293	3.3V @ 12.0A / 24.0V @ 2.0A

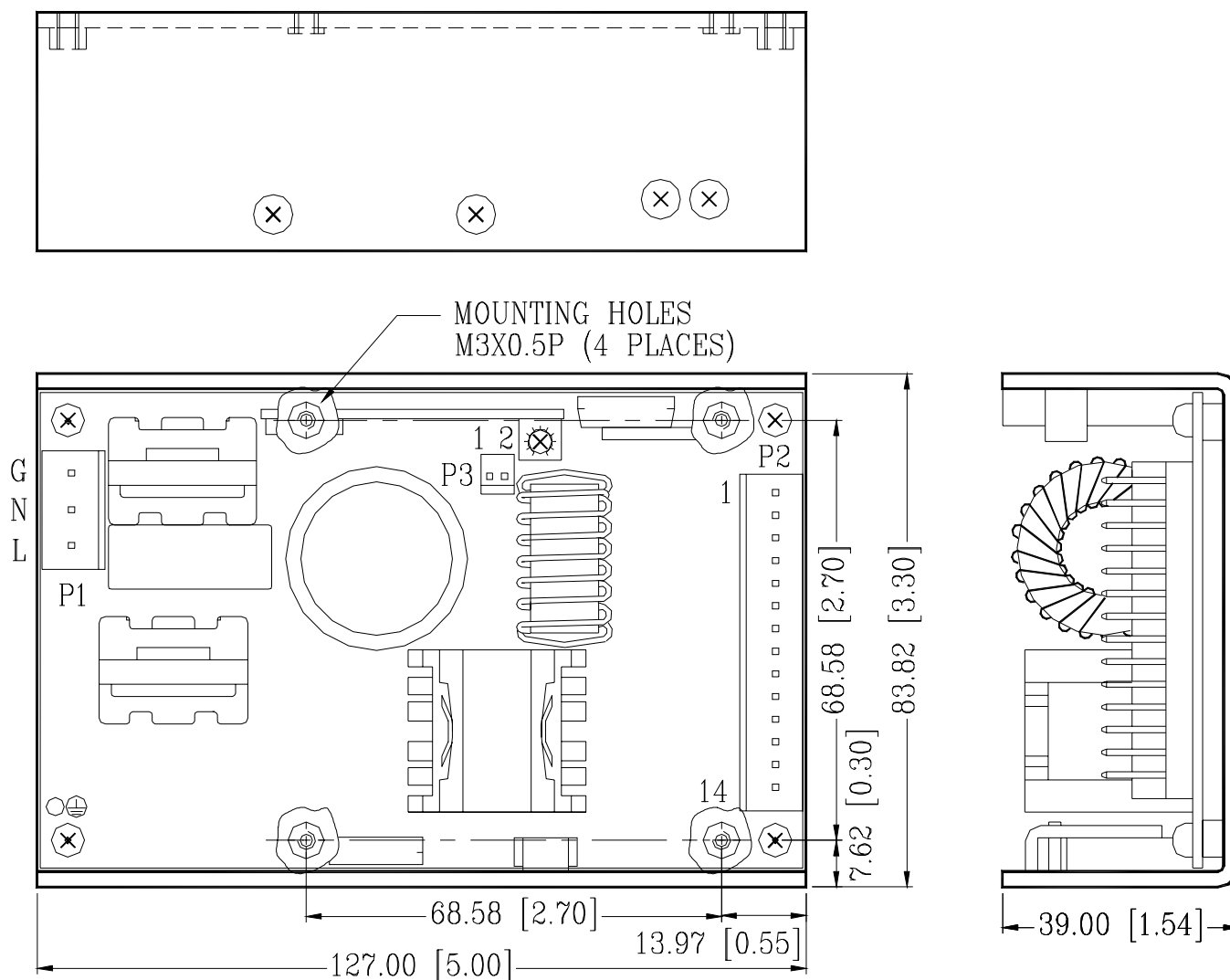
Add Suffix "-G" for Gaming Applications
(< 500uA Leakage Current & Class A Emissions)

Model Number

Outputs

APS102VI-30	+5V @ 10.0A / +12V @ 3.4A / -12V @ 0.6A
APS102VI-31	+5V @ 10.0A / +12V @ 3.4A / -5V @ 0.6A
APS102VI-32	+5V @ 10.0A / +24V @ 1.5A / -12V @ 0.6A
APS102VI-33	+5V @ 10.0A / +15V @ 2.5A / -15V @ 0.6A
APS102VI-393	+3.3V @ 12.0A / +12V @ 3.4A / -12V @ 0.6A
APS102VI-394	+3.3V @ 12.0A / +15V @ 2.8A / -15V @ 0.6A
APS102VI-390B	+3.3V @ 18.0A / +5V @ 4.0A / +12V @ 1.0A
APS102VI-40	+5V @ 10.0A / +12V @ 3.0A / -12V @ 0.6A / 12V @ 0.6A
APS102VI-41	+5V @ 10.0A / +12V @ 3.0A / -5V @ 0.6A / 5V @ 0.6A
APS102VI-42	+5V @ 10.0A / +24V @ 1.5A / -12V @ 0.6A / 12V @ 0.6A
APS102VI-43	+5V @ 10.0A / +15V @ 2.5A / -15V @ 0.6A / 12V @ 0.6A
APS102VI-44	+5V @ 10.0A / +24V @ 1.5A / -15V @ 0.5A / 15V @ 0.5A
APS102VI-44E	+5V @ 3.0A / +24V @ 1.5A / -15V @ 0.5A / 15V @ 0.5A
APS102VI-490	+3.3V @ 12.0A / +12V @ 3.0A / -12V @ 0.6A / 5V @ 0.6A
APS102VI-490B	+3.3V @ 12.0A / +5V @ 4.0A / -12V @ 0.6A / 12V @ 0.6A
APS102VI-491	+3.3V @ 12.0A / +15V @ 2.5A / -15V @ 0.6A / 5V @ 0.6A
APS102VI-491B	+3.3V @ 12.0A / 5V @ 4.0A / -15V @ 0.6A / 15V @ 0.6A
APS102VI-492	+3.3V @ 12.0A / +12V @ 3.0A / -12V @ 0.6A / 12V @ 0.6A
APS102VI-493	+3.3V @ 12.0A / +15V @ 2.5A / -15V @ 0.6A / 12V @ 0.6A
APS102VI-494	+3.3V @ 12.0A / +24V @ 1.5A / -12V @ 0.6A / 12V @ 0.6A
APS102VI-495	+3.3V @ 7.0A / +5V @ 1.0A / -5V @ 1.0A / 24V @ 2.5A
APS102VI-496E	+3.3V @ 15.0A / +5V @ 1.1A / -48V @ 12.5A / 6.25V @ 0.3A

Mechanical Details



Notes

WEIGHT: PCB Version = 448.5g (15.82Oz)

INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT:

INPUT: AC LINE = P1-3 / AC NEUTRAL = P1-2 / P1-1

SINGLE OUTPUT ASSIGNMENTS: P2-1,2,3,4,5 = V1 / P2-6,7,8,9,10,11 = COMMON

DUAL OUTPUT ASSIGNMENTS: P2-1,2,3 = V1 / P2-8,9 = V2 / P2-4,5,6,7,10,13 = COMMON

TRIPLE OUTPUT PIN ASSIGNMENTS: P2-1,2,3 = V1 / P2-8,9 = V2 / P2-11 = V3 / P2-4,5,6,7,10,13 = COMMON

QUAD OUTPUT PIN ASSIGNMENTS: P2-1,2,3 = V1 / P2-8,9 = V2 / P2-11 = V3 / P2-14 = V4 / P2-4,5,6,7,10,13 = COMMON

SIGNAL PIN ASSIGNMENTS: P3-1 = -SENSE / P3-2 = +SENSE / P2-12 = POWER FAIL