

UNIVERSAL INPUT AC TO DC SINGLE & MULTIPLE OUTPUT INTERNAL SWITCHING POWER SUPPLIES 72 WATT APS72VI SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES IN THE WORLD
- OPEN FRAME BRACKET OR ENCLOSURE BOX FORMATS
- LOW COST COMMERCIAL GRADE
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- UL/CSA/TUV APPROVALS
- EMI/RFI MEET CISPR PUB.22 CLASS B & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typ. 90-264VAC
Input Connector: B-S or V-M connectors
Input Frequency: 47-63Hz
 (Consult factory for 440Hz operation)
Inrush Current: 25A peak at 264VAC
Input Current: 2.0A @ 115VAC, 0.6 A @ 230VAC
Dielectric Withstand: Meets IEC950
 3,000VAC-Output/Input
 1,500VAC-Input/GND
 500VAC-Output/GND
EMI/RFI: Meets CISPR EN55022 B.& FCC B
No Load Operation: No damage
Overshoot: No voltage spike
Hold-up Time: 20mS @ 115VAC, 80mS @ 230VAC
Earth Leakage: Less than 0.5mA @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Connector: B-S or V-M connector
Line Regulation: Typ. $\pm 0.1\%$
Load Regulation:
 Main O/P VO1 typ. $\pm 1.0\%$
 Aux. O/P VO2 typ. $\pm 3.0\%$
 Aux. O/P VO3/VO4 typ. $\pm 1.0\%$ with PR.
Noise & Ripple: Typ. 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% till OVP
Overload Protection: 105-150% max. power
Max. cont. output power:
 Without fan cooling 72 Watts .max.
LED Indicator: indicating output voltage

GENERAL SPECIFICATIONS:

Efficiency: Typ. 72% Switching Frequency : Fixed freq. 45KHz 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 enclosure box format Low cost commercial grade
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OUTPUT VOLTAGE/CURRENT RATING CHARTS

SINGLE OUTPUT:

MODEL NO.	MAIN O/P VO1 @ ★ TYP. VOLT. PEAK		
APS72VI-10	14.0A	5V	15.0A
APS72VI-11	6.0A	12V	6.3A
APS72VI-12	4.8A	15V	5.0A
APS72VI-13	3.0A	24V	3.2A
APS72VI-14	2.3A	32V	2.5A

TRIPLE OUTPUT:

MODEL NO.	MAIN O/P VO1 @ ★ TYP. VOLT. PEAK			AUX. O/P +VO2 † TYP. VOLT. PEAK			AUX. O/P +/-VO3 • TYP. VOLT. PEAK		
APS72VI-30	7.0A	+5V	8.0A	2.0A	+12V	3.0A	1.0A	12V	1.0A
APS72VI-31	7.0A	+5V	8.0A	2.0A	+12V	3.0A	1.0A	5V	1.0A
APS72VI-32	7.0A	+5V	8.0A	1.0A	+24V	1.0A	1.0A	12V	1.0A
APS72VI-33	7.0A	+5V	8.0A	1.5A	+15V	1.6A	1.0A	15V	1.0A

QUAD OUTPUT:

MODEL NO.	MAIN O/P VO1 @ ★ TYP. VOLT. PEAK			AUX. O/P +VO2 or † TYP. VOLT. PEAK			AUX. O/P +/-VO3 • TYP. VOLT. PEAK			AUX. O/P -VO4• TYP. VOLT. PEAK		
APS72VI-40	6.5A	+5V	8.0A	2.0A	+12V	3.0A	0.5A	12V	1.0A	0.5A	-12V	1.0A
APS72VI-41	6.5A	+5V	8.0A	2.0A	+12V	3.0A	1.0A	5V	1.0A	1.0A	-5V	1.0A
APS72VI-42	6.5A	+5V	8.0A	1.0A	+24V	2.0A	0.5A	12V	1.0A	0.5A	-12V	1.0A
APS72VI-43	6.5A	+5V	8.0A	1.6A	+15V	3.0A	0.5A	15V	1.0A	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 396 g (13.97 Oz.)

POWER DENSITY: 2.0W/Cubic Inch

Box 489 g (17.25 Oz.)

