



Advanced Power Solutions

**AUTO-RANGING INPUT AC-DC TRIPLE OUTPUT 105 WATTS
INTERNAL SWITCHING POWER SUPPLIES APS105IA SERIES**



FEATURES:

- ACCOMMODATE WORLDWIDE SOURCES
- LOW COST GAMES USE POWER SUPPLY
- EMI MEETS CISPR PUB.22 & FCC CLASS B
- LED 5V INDICATION
- MEETS UNIVERSAL SAFETY STANDARDS
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 115/230 Vac Auto-Ranging input
Input Connector: Screw-type terminal Connector
Input Frequency: 47-63Hz
Inrush Current: Typ. 35A@230Vac
Input Current: Typ. 2.3A @115Vac/ 1.2A @230Vac
Dielectric Withstand: Meets IEC950
EMI: Meet CISPR PUB.22 / FCC Class B
Hold-up Time: Typ. 16mS @115Vac/50mS @ 230Vac
Power Fail Signal: Installed
Earth Leakage: Less than 0.4mA @230Vac
Overload Protection (OLP): Fully protected against output overload and short circuit
 Consult the factory for OLP setting

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Connector: B-S connector
Output Wattage: Typ. 105 Watts
Line Regulation: Typ. 0.5%
Load Regulation: Main VO1 ±1% typ
 Aux. VO2 /VO3 ±3% typ (Common choke)
Noise & Ripple: Typ. 1.0% peak to peak
OVP: Built-in at main VO1
LED Indicator: Installed in main output
Adjustability: Available at main VO1

GENERAL SPECIFICATION

Efficiency: Typ. 75-80%
Switching Frequency: 75KHz
Circuit Topology: Fixed Frequency Forward Circuit
Transient Response: Output voltage returns in less than 3mS following a 25% load change
Safety Standard: IEC950/ UL1950 Class I

Operating Temperature: 0 to +50°C
Storage Temperature: -20 to +85°C
Temperature Coefficient: Typ. 0.04% /°C
Cooling: Recommended 20 CFM forced air flow for full load operation
Construction: Enclosure metal box
Power Density: 1.75 Watts / Cubic inch



OUTPUT VOLTAGE/CURRENT RATINGS CHART

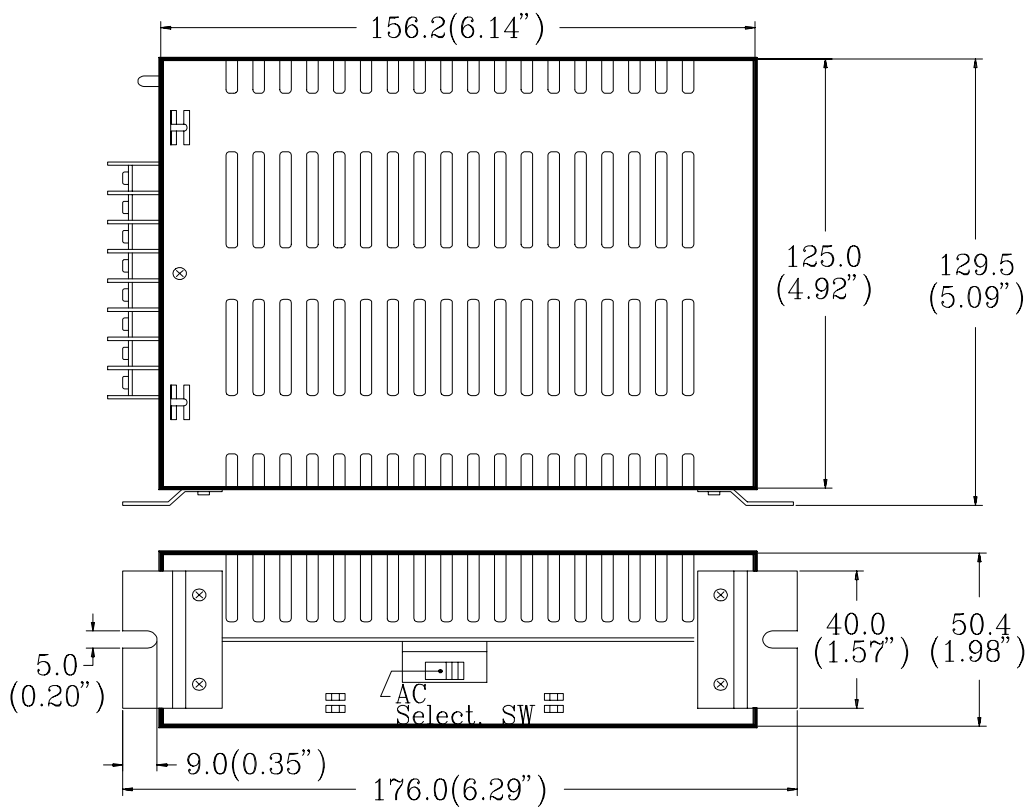
TRIPLE OUTPUT

MODEL NO	MAIN +VO1 ★@#		AUX. ± VO2 ■		AUX. -VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
APS105IA-30	5.0A	+5.0V	1.0A	-5.0V	1.8A	-48.0V
APS105IA-31	13.0A	+5.0V	2.5A	+12.0V	0.5A	-12.0V
APS105IA-32	13.0A	+5.0V	1.3A	+24.0V	0.5A	-12.0V
APS105IA-33	13.0A	+5.0V	2.0A	+15.0V	0.5A	-15.0V

Symbol: "★" OVP built-in. "@# Adjustable. "■" Couple choke. "# Remote sensing.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 770.0g (27.0 Oz.)



INPUT & OUTPUT CONNECTOR PIN ASSIGNMENT

ASSIGNMENT CNTR & PIN#	AC INPUT			TRIPLE OUTPUT			
	AC-LINE	AC-NEUTRAL	AC-GRAND	+VO1	DC COM	+VO2	-VO3
	P1-1 (L)	P1-2 (N)	P1-3 (G)	P1-4	P1-5, 6	P1-7	P1-8

Mating connector: Barrier-Strip Screw Terminal block, Pitch 0.394"(10.0mm), Screw on top.