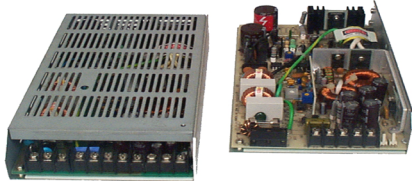


**UNIVERSAL INPUT HARMONIC CORRECTION AC-DC  
SINGLE & MULTIPLE OUTPUT INTERNAL SWITCHING  
POWER SUPPLIES 100 WATT APS100VP SERIES**



**FEATURES:**

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEET IEC1000-3-2 HARMONIC CORRECTION
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- EMI/RFI MEET CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE.

**SPECIFICATIONS**

**INPUT SPECIFICATIONS:**

**Input Voltage:** Type 90-264VAC  
**Input Connector:** B-S connector  
**Input Frequency:** 47-63Hz (Consult factory) for 440Hz. operation)  
**Inrush Current:** Max. 20A @230VAC by active inrush current circuit  
**Input Current:** 1.6-0.53A within AC input  
**Dielectric Withstand:** Meet IEC950  
 3,000VAC-Output/Input  
 1,500VAC-Input/GND  
 500VAC-Output/GND  
**EMI/RFI:** Meet CISPR PUB. 22 Class B  
**Hold-up Time:** 30mS @ 115VAC  
**Power Fail Signal:** Optional  
**Power Factor Correction:** Meet Harmonic Correction per IEC1000-3-2  
**Earth Leakage:** Less than 500 micron Amp

**OUTPUTS SPECIFICATIONS:**

**Output Voltage and Currents:** See RATINGS CHARTS  
**Output Connector:** B-S connector  
**Centering:** Initial setting on Aux. all O/P  
 50% typ. load  $\pm 5\%$  typ.  $\pm 2\%$  optional  
**Line Regulation:** Main VO1  $\pm 0.1\%$  typ.  
 Aux. VO2  $\pm 0.5\%$ , VO3&4  $\pm 0.1\%$  typ.  
**Load Regulation:** Main O/P VO1  $\pm 1\%$  typ.  
 Aux. O/P VO2  $\pm 5\%$  typ. stacked on VO1.  
 Aux. O/P VO3 & VO4  $\pm 1.5\%$  typ. with PR.  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Main O/P only set @ 124%  $\pm 8\%$  VO1  
**Remote Sense:** Option  
**Adjustability:** VO1 O/P, from -10% till OVP point  
 VO2 if with Magnetic Amp.  $\pm 10\%$   
**Overload Protection:** If output power is over 130%, OLP reduces all outputs voltages to a safe dissipation level & protects against short circuit at any O/P.

**GENERAL SPECIFICATIONS:**

**Efficiency:** Typ. 73%  
**Switching Frequency:** Fixed frequency at 85KHz  
**Circuit Topology:** Fixed frequency forward circuit  
**Transient Response:** Output voltage returns in less than 3mS following a 50% load change.  
**Safety Standard:** UL1950/EN60950 Class I.  
**Construction:** Enclosure box or L-bracket format

**Operating Temperature:** 0-45°C convection  
 If with 20CFM Fan cooling 0-70°C  
**Storage Temperature:** -20 to +85°C  
**Temperature Coefficient:** 0.04% per °C  
**Cooling:** Convection; Recommended 20CFM fan cooling  
**Long Term Stability:** 20 minutes warm-up, 0.1%  
**High Quality Industrial Grade**



# OUTPUT VOLTAGE/CURRENT RATING CHARTS

## SINGLE OUTPUT:

MODEL NO.	MAIN VO1 O/P @ ★#		
	TYP. A	VOLT.	PEAK A
APS100VP-10	20.0A	5V	23.0A
APS100VP-11	8.5A	12V	9.8A
APS100VP-12	7.0A	15V	8.0A
APS100VP-13	4.5A	24V	5.0A
APS100VP-14	4.0A	28V	4.6A
APS100VP-15	3.0A	36V	3.4A

## TRIPLE OUTPUT:

MODEL NO.	MAIN VO1 O/P @ ★			AUX. VO2 O/P †			AUX. +/-VO3 O/P •		
	TYP. A	VOLT.	PEAK A	TYP. A	VOLT.	PEAK A	TYP. A	VOLT.	PEAK A
APS100VP-30	12.0A	+5V	15.0A	3.0A	+12V	5.0A	0.8A	12V	1.0A
APS100VP-31	12.0A	+5V	15.0A	3.0A	+12V	5.0A	0.8A	5V	1.0A
APS100VP-32	12.0A	+5V	15.0A	1.5A	+24V	2.5A	0.8A	12V	1.0A
APS100VP-33	12.0A	+5V	15.0A	3.0A	+15V	5.0A	0.3A	15V	1.0A

Symbols: "★"OVP built-in. "@Adjustable. "†" Stacked on main output "•" Installed with Post Regulator (PR).

"#" Remote sensing. "+/-" Positive or Negative selectable (factory set).

Remark: (1)At least 20% of typical main output current is required to maintain stated regulations.

(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 706g (20.0 Oz.)

**POWER DENSITY:** 2.16W/Cubic Inch

Box 795g (28.0 Oz.)

