

APS

Advanced Power Solutions

UNIVERSAL INPUT POWER FACTOR CORRECTION AC-DC SINGLE & MULTIPLE OUTPUT 100 WATTS 19" COMPATIBLE SWITCHING POWER SUPPLIES APS100PU SERIES EUROCARD FOR VMEbus SYSTEM



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- MEETS UNIVERSAL SAFETY STANDARDS
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEETS EN 55022 AND FCC CLASS B
- CE MARKING COMPLIANCE
- 10HP X 3U X 160MM VMEbus STANDARD

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC
Input Connector: DIN 41612 at rear
Input Frequency: 47-63Hz
Inrush Current: 32A peak @ 230Vac
Input Current: 1.0A @ 115Vac, 0.5A @ 230Vac
Dielectric Withstand: Meets IEC950
EMI: Meet EN 55022 B. & FCC B
Power Factor Correction: Meets Harmonic Correction
 IEC1000-3-2 .PF typ.0.97-0.98
Power Indicator: Green LED
Power OK Signal: Installed
Logic Inhibit: Installed
Hold-up Time: 20ms @ 115Vac & 230Vac
Earth Leakage: Less than 0.40mA @ 230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Connector: DIN 41612 at rear
Line Regulation: Typ. 0.5%
Load Regulation: Main VO1 typ. $\pm 1-2.0\%$
 Aux.VO2 typ. $\pm 2.0\%$ (Mag. Amp.)
 Aux.VO3 typ. $\pm 3.0\%$ (P.R.)
Noise & Ripple: Typ. 1% peak to peak
OVP: Built-in at main VO1
Adjustability: Available at VO1 & VO2
Overload Protection (OLP): Fully protected against
 output overload and short circuit
 Consult the factory for OLP setting

GENERAL SPECIFICATION

Efficiency: Typ. 73-76%
Switching Frequency: Fixed frequency 80KHz
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 full load &
 +50 to +70°C by de-rating 2%/°C
Storage Temperature: -25 to +85°C
Temperature Coefficient: Typ. 0.03% /°C
Cooling: Free air convection cooling
Construction format: Enclosure metal box format
Power Density: 2.0 Watts / Cubic Inch

Note: All measurements are at nominal input, full load, and +25°C unless otherwise specified.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★@# Typ. Volt.
APS100PU-033250	25.0A 3.3V
APS100PU-050200 (APS100PU-10)	20.0A 5.0V
APS100PU-120080	8.0A 12.0V
APS100PU-150075	7.5A 15.0V
APS100PU-240042 (APS100PU-13)	4.2A 24.0V
APS100PU-280036	3.6A 28.0V
APS100PU-360028	2.8A 36.0V
APS100PU-480021	2.1A 48.0V

DUAL OUTPUT

MODEL NO.	MAIN VO1 ★@● Typ. Volt.	AUX. VO2 @▲● Typ. Volt.
APS100PUD-050I (APS100PU-20)	8.0A 5.0V	5.0A 12.0V
APS100PUD-120I (APS100PU-21)	4.2A 12.0V	4.2A 12.0V
APS100PUD-050K	8.0A 5.0V	4.0A 15.0V
APS100PUD-150K (APS100PU-23)	3.4A 15.0V	3.4A 15.0V
APS100PUD-033I	11.0A 3.3V	5.0A 12.0V
APS100PUD-033K	11.0A 3.3V	4.0A 15.0V

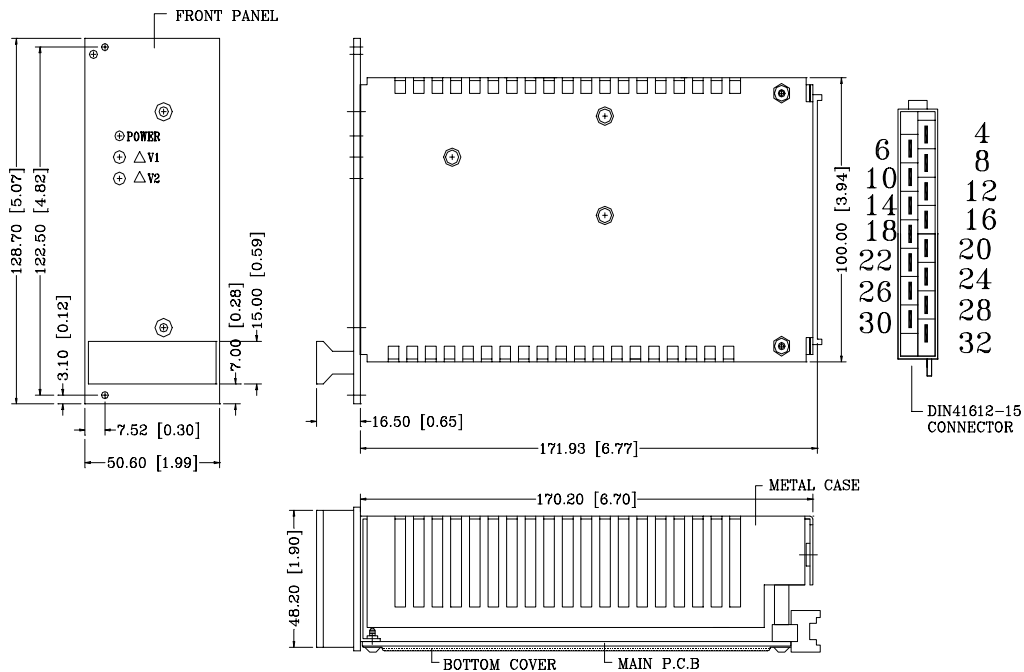
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@● Typ. Volt.	AUX. VO2 @▲● Typ. Volt.	AUX. VO3 ●● Typ. Volt.
APS100PUT-050IE	7.0A 5.0V	5.0A 12.0V	1.0A 5.0V
APS100PUT-050KK (APS100PU-31)	7.0A 5.0V	4.0A 15.0V	0.4A 15.0V
APS100PUT-050II (APS100PU-32)	7.0A 5.0V	5.0A 12.0V	0.5A 12.0V
APS100PUT-033EI	11.0A 3.3V	9.0A 5.0V	1.0A 12.0V
APS100PUT-033KK	10.0A 3.3V	4.0A 15.0V	0.6A 15.0V
APS100PUT-033II	10.0A 3.3V	5.0A 12.0V	0.8A 12.0V

Symbol: "★" OVP built-in. "@#" Adjustable. "#" Remote sensing. "▲" Magnetic Amplifier.
 "●" Floating (or isolated) output. "●●" Installed with Post Regulator.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 920.0g (32.5 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT					DUAL OUTPUT					TRIPLE OUTPUT					Status/Control			
	AC-L	AC-N	AC-G	+VO1	+S	-VO1	-S	NC	+VO1	-VO1	+VO2	-VO2	NC	+VO1	-VO1	+VO2	-VO2	+VO3	-VO3	NC	Log. Inh.	P.Ok
DIN 41612#	28	30	32	4,6	8	12,14	10	16,18,24,26	4	6	8	10	12,14,16,18,24,26	4,6	8,10	12	14	16	18	24,26	20	22

Mating connector: DIN 41612-H15 Female.