

# APS

## Advanced Power Solutions

### **UNIVERSAL INPUT POWER FACTOR CORRECTION AC-DC SINGLE & MULTIPLE OUTPUT 60 WATTS 19" COMPATIBLE SWITCHING POWER SUPPLIES APS60PU SERIES EUROCARD FOR VMEbus SYSTEM**



#### **FEATURES:**

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEET IEC1000-3-2 HARMONIC CORRECTION
- MEETS UNIVERSAL SAFETY STANDARDS
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEETS EN 55022 AND FCC CLASS B
- CE MARKING COMPLIANCE
- 8HP 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:** 0.73A @ 115Vac, 0.37A @ 230Vac  
**Dielectric Withstand:** Meets IEC950  
**EMI/RFI:** Meet EN 55022 B & FCC B  
**Power Indicator:** Green LED  
**Power Failure Signal:** Installed  
**Remote On/Off:** Installed  
**Power Factor Correction:** Meets Harmonic Correction  
 IEC1000-3-2 .PF typ.0.97-0.98  
**Hold-up Time:** 41mS @ 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.  $\pm 1.0\%$   
 Aux.VO2 typ.  $\pm 2.0\%$  (Mag. Amp.)  
 typ.  $\pm 3.0\%$  (P.R.)  
 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%  
**Switching Frequency:** Fixed frequency 72KHz  
**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 derating 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:** 1.52 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.
APS60PU-025180	18.0A	2.5V
APS60PU-030150	15.0A	3.0V
APS60PU-050120	12.0A	5.0V
APS60PU-060100	10.0A	6.0V
APS60PU-120050	5.0A	12.0V
APS60PU-150040	4.0A	15.0V
APS60PU-190030	3.0A	19.0V
APS60PU-240025	2.5A	24.0V
APS60PU-480013	1.3A	48.0V

### DUAL OUTPUT

MODEL NO.	MAIN VO1 ★@#		AUX. VO2 ▲●	
	Typ.	Volt.	Typ.	Volt.
APS60PUD-030E	6.0A	3.0V	6.0A	5.0V
APS60PUD-030I	6.0A	3.0V	3.0A	12.0V
APS60PUD-050I	5.0A	5.0V	3.0A	12.0V
APS60PUD-120I	2.5A	12.0V	2.5A	12.0V
APS60PUD-050K	5.0A	5.0V	2.5A	15.0V
APS60PUD-150K	2.0A	15.0V	2.0A	15.0V
APS60PUD-050M	5.0A	5.0V	1.5A	24.0V
APS60PUD-040M	1.4A	4.0V	1.4A	24.0V

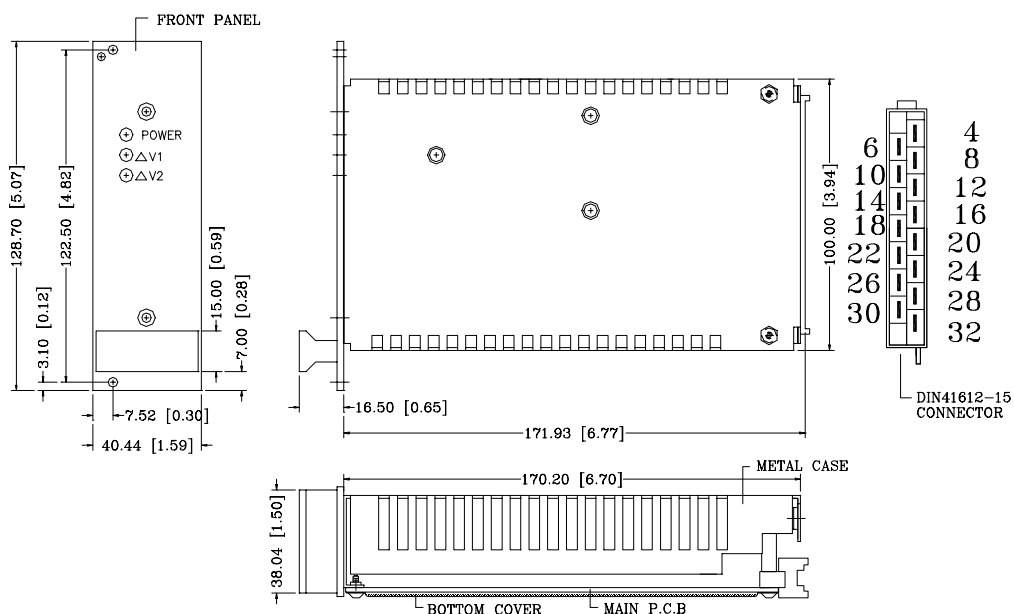
### TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@●		AUX. VO2 @▲● or●		AUX. VO3 ●●	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
APS60PUT-050IE (APS60PU-30)	5.0A	5.0V	2.5A	12.0V	1.0A	5.0V
APS60PUT-050KK (APS60PU-31)	5.0A	5.0V	2.0A	15.0V	0.5A	15.0V
APS60PUT-050II (APS60PU-32)	5.0A	5.0V	2.5A	12.0V	0.5A	12.0V
APS60PUT-030EI	6.0A	3.0V	5.0A	5.0V	1.0A	12.0V
APS60PUT-030KK	6.0A	3.0V	2.0A	15.0V	0.5A	15.0V
APS60PUT-030II	6.0A	3.0V	2.5A	12.0V	0.6A	12.0V

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

### MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT: 720.0g (25.4Oz.)**



### 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. Fail
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.