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TECHNOLOGY GROUP

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02/13/2002

APS

Advanced Power Solutions

UNIVERSAL INPUT AC TO DC EXTERNAL REGULATED DESKTOP SWITCHING POWER SUPPLIES TO 40 WATTS AD-740U SERIES



FEATURES:

- **ACCOMMODATES UNIVERSAL AC SOURCES**
- **DESKTOP SUPPLY WITH IEC320 AC RECEPTACLE**
- **DESIGNED TO MEET INTERNATIONAL SAFETY STANDARDS**
- **APPROVED TO UL/CUL STANDARDS**
- **EMI/RFI PER CISPR PUB. 22 CLASS B**
- **CE MARKING COMPLIANCE**

INPUT and OUTPUT SPECIFICATIONS

Input Voltage:	90-250 VAC	Output Voltage:	See Ratings Chart
Input Connector:	IEC 320 AC Receptacle built-in	Output Current:	See Ratings Chart
Input Frequency:	47-63 Hz (Consult factory for 440 Hz)	Output Wattage:	20 to 40 Watt
Inrush Current:	25 A Max. at 132Vac / cold start 50 A Max. at 250 Vac / cold start	Line Regulation:	0.2% max.
		Load Regulation:	Main Output ±3% max. Aux. Outputs ±5%
Dielectric Withstand:	Meets IEC950		
EMI/RFI:	Complies with FCC part 15 Class B EN55011, EN55022, CISPR PUB. 22 Class B	Noise & Ripple:	Typ. 1% peak to peak,Max.2%
		Over Voltage Protection:	115 –140%, auto recovery
Hold-up time:	16ms minimum	Adjustability:	Factory set
Efficiency:	Typical 75% - 85% typical, depending on output voltage	Overload Protection:	115-130%, automatic recovery
		Short Circuit Protection:	Automatic recovery
		Output Connector & Cord:	Optional

GENERAL SPECIFICATIONS

Topology:	Self oscillating flyback	Operating Temperature:	0 to 50°C
Switching Frequency:	60 KHz nominal at full load	Storage Temperature:	-20 to +85°C
Transient Response:	1ms typical for return within 1% for 50% load step change 1A/microsec. 5% maximum deviation	Temperature Coefficient:	0.04% per °C
		Cooling:	Free air convection
		Construction:	Impact resistant thermo-plastic enclosure
Safety Standards:	UL1950; CSA950, EN60950		

Remark: Load Regulation: The exact voltage obtainable depends upon the output cord and load current. Data listed above are for 6ft. (2 meter) cords # AWG 18/20 wires with PF or PD connectors.

VOLTAGE/ CURRENT RATINGS CHART

SINGLE OUTPUT:

MODEL	VOLT ◆	AMP	MODEL	VOLT ◆	AMP
AD-740U-1050	5.0 V	4.0 A	**AD-740U-1160**	16.0 V	2.5 A
AD-740U-1060	6.0 V	4.0 A	**AD-740U-1180**	18.0 V	2.2 A
AD-740U-1075	7.5 V	4.0 A	**AD-740U-1200**	20.0 V	2.0 A
AD-740U-1090	9.0 V	3.5 A	**AD-740U-1225**	22.5 V	1.8 A
AD-740U-1120	12.0 V	3.0 A	**AD-740U-1240**	24.0 V	1.7 A
AD-740U-1138	13.8 V	2.8 A	**AD-740U-1252**	25.2 V	1.6 A
AD-740U-1150	15.0 V	2.7 A	**AD-740U-1280**	28.0 V	1.4 A

DUAL OUTPUT:

MODEL	MAIN VOLT ◆	AMP	AUX. VOLT ■	AMP
AD-740U-2250	5.0 V	3.0 A	12.0 V	1.5 A
AD-740U-2120	12.0 V	1.5 A	-12.0 V	1.5 A

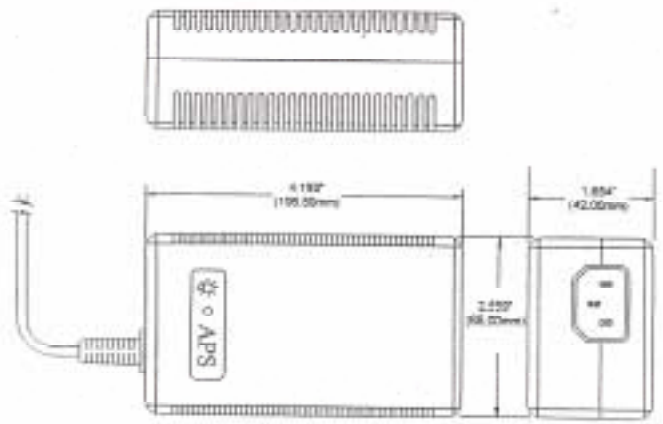
TRIPLE OUTPUT:

MODEL	MAIN VOLT ◆	AMP	AUX. VOLT ■	AMP	AUX. VOLT ●	AMP
AD-740U-3125	5.0 V	2.5 A	+12.0 V	1.0 A	-12.0 V	0.3 A
AD-740U-3155	5.0 V	2.5 A	+15.0 V	1.0 A	-15.0 V	0.3 A

Symbol: "◆" OVP Built in; "■" Stacked on main output; "●" installed with post regulator
Remark: At least 20% of typical main output current is required to maintain stated regulation for the multiple output units.

Other models are available. Please contact APS for more options

MECHANICAL DIMENSIONS: INCHES (MM). **WEIGHT:** 10 OZ. (284 G) TYPICAL



Refer to the Output Plug data sheet for typical options.

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