

# UP010( )A-( )( )L SERIES

## 10 Watt AC/DC Switching Modules

- ◆ Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR Class B
- ◆ Continuous Short Circuit Protection
- ◆ Small Size
- ◆ MTBF 410Khrs



### SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

### INPUT SPECIFICATIONS

Input Voltage Range ..... 90-264VAC  
Input Frequency ..... 47-63 Hz  
Inrush Current ..... 30A max.(Cold Start)  
Line Regulation<sup>1</sup> ..... ± 1%

### GENERAL SPECIFICATIONS

Hold-up Time ..... 16mS typ.  
Short Circuit Protection ..... Continuous  
Overvoltage Protection ..... 5VDC output only  
Hi-pot Isolation: Input / Output ..... 4242 VDC

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ..... 0°C to 70°C  
Derating 50°C to 70°C..... 2%/°C  
Temperature Coefficient ..... ± 0.02%/°C  
Storage Temperature Range ..... -40°C to +85°C  
Humidity, Non-Condensing ..... 0 to 95% RH  
Cooling ..... Free- Air Convection  
EMI Filter(on Board):  
Conducted ..... Meets FCC/CISPR 22 Class B  
Specification

### NOTE:

1.Measured from 90 to 264 VAC.

## OUTPUT SPECIFICATIONS

Model Number	Output Voltage <sup>1</sup> (Volts)	Output Current (Amps)	Ripple <sup>2</sup> P-P (mV)	Efficiency (%)	Load Regulation <sup>3</sup>	Total Regulation <sup>3</sup>
					Load Change 25-100%	
<b>UP0101A-01L</b>	5	2000	50	65	± 1%	L
<b>UP0101A-02L</b>	12	840	120	70	± 1%	L
<b>UP0101A-03L</b>	15	670	150	70	± 1%	L
<b>UP0102A-01L</b>	± 5	± 1000	50	65	± 5%	L
<b>UP0102A-02L</b>	± 12	± 420	120	70	± 3%	L
<b>UP0102A-03L</b>	± 15	± 335	150	70	± 3%	L

### NOTES:

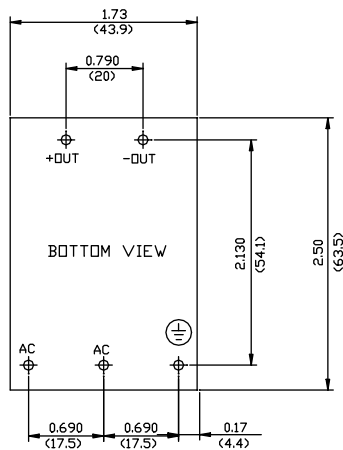
1. The single output voltage is set to ± 1%, dual output voltage is set to ± 2% at rated load. Voltage balance for dual output at rated is 0% max.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to the output cable. Peak to peak and RMS metering equipment shall have a 20 MHz response with probes and cables maintaining frequency response from 200 Hz to 100MHz bandwidth. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
3. Load regulation is measured at 115VAC or 230VAC input, while the output being measured is loaded 25% to 100% of rated load. All other outputs at rated load.

## PHYSICAL SPECIFICATIONS

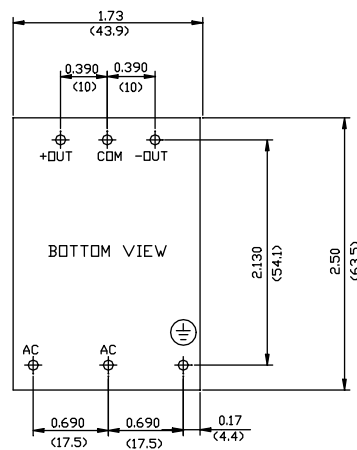
Weight : 150g

Case Material : Non Conductive black plastic

SINGLE OUTPUT MODEL



DUAL OUTPUT MODEL



SIDE VIEW



### NOTES:

1. All dimensions in inches(mm).
2. Tolerance: .xx = ± 0.05  
.xxx = ± 0.020