

# UP030( )A-( )( )I(H) SERIES

## 30 Watt AC/DC Switching Modules

- ◆ Small Size
- ◆ Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR 22 Class B
- ◆ Designed to Meets UL,CSA,TUV Safety Standards

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### 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 50°C  
Derating 40°C to 50°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 (mA)	Ripple <sup>2</sup> P-P (mV)	Efficiency (%)	Load Regulation <sup>3</sup>	Case
					Load Change 25-100%	
UP0301A-01I	5	5000	50	69	± 1%	I2
UP0301A-02I	12	2500	120	75	± 1%	I2
UP0301A-03I	15	2000	150	75	± 1%	I2
UP0302A-01I	± 5	± 2500	50	69	± 5%	I2
UP0302A-02I	± 12	± 1250	120	75	± 3%	I2
UP0302A-03I	± 15	± 1000	150	75	± 3%	I2
UP0301A-01H	5	5000	50	69	± 1%	H
UP0301A-02H	12	2500	120	75	± 1%	H
UP0301A-03H	15	2000	150	75	± 1%	H
UP0302A-01H	± 5	± 2500	50	69	± 5%	H
UP0302A-02H	± 12	± 1250	120	75	± 3%	H
UP0302A-03H	± 15	± 1000	150	75	± 3%	H

### NOTES:

- 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 load is 2% max..
- 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 band width. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
- 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 : Case I2:270g, Case H:420g  
Case Material : Non conductive black plastic

