

UP0501Q-() () P / () () T SERIES

50 Watt AC/DC Adapter

- ◆ Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR 22 Class B
- ◆ Continuous Short Circuit Protection



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 No component damage

GENERAL SPECIFICATIONS

Hold-up Time 10mS typ.
Leakage Current, UP0501Q-XXP 0.25mA max.
UP0501Q-XXT 0.5mA max.
Short Circuit Protection Continuous
Overvoltage Protection Optional
Overload Protection 120~200% of rated value
Efficiency 80% typ.
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(EMI Filter on Board):
Conducted Meets FCC/CISPR 22 Class B
Specification



**UNIVERSAL
MICROELECTRONICS**

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OUTPUT SPECIFICATIONS

Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (Watt)	Efficiency (typ.)	Ripple ¹ P-P (mV)	Total Regulation ²
		Min.	Rated				
UP0501Q-12P/12T	12	0	4.16	50	80%	200	±5%
UP0501Q-15P/15T	15	0	3.33	50	80%	200	±4%
UP0501Q-16P/16T	16	0	3.13	50	80%	200	±4%
UP0501Q-18P/18T	18	0	2.78	50	80%	200	±4%
UP0501Q-19P/19T	19	0	2.63	50	80%	200	±4%
UP0501Q-22P/22T	22	0	2.27	50	80%	200	±4%
UP0501Q-24P/24T	24	0	2.08	50	80%	200	±4%

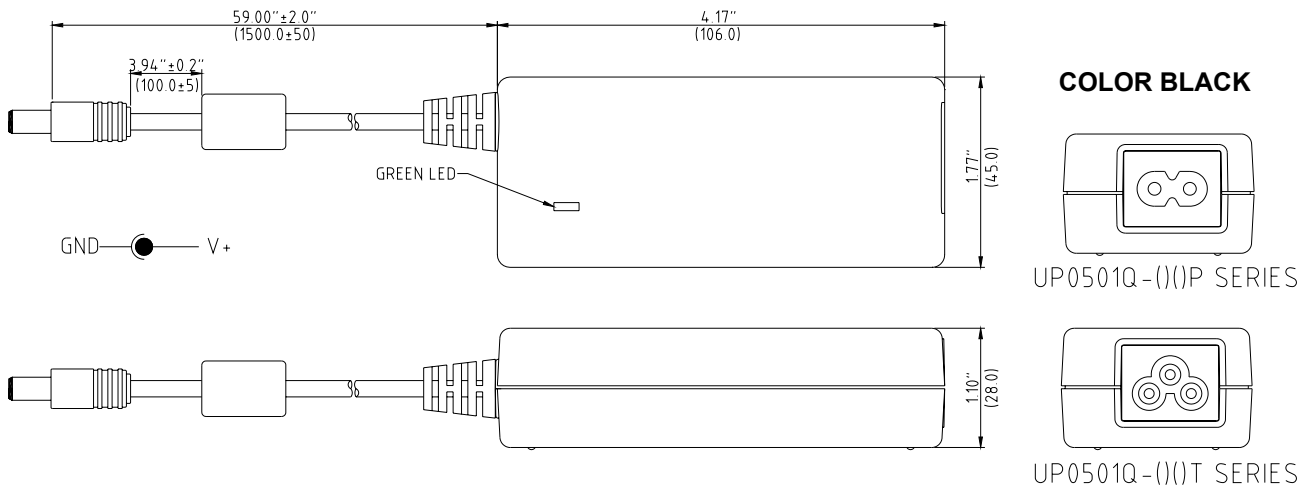
NOTES

1. 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.
2. Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage and load current within stated limits.
3. Replace input line fuse with same type & rating. Recommended 2A/250 VAC time lag fuse.

PHYSICAL SPECIFICATIONS

Weight: 250g

Case Material: PC+ABS Plastic UL94V-0 Flammability Rated



DC plug & pin assignment (CUSTOM DESIGN IS AVAILABLE)

IN 2.5/OUT5.5 DC PLUG FEMALE

NOTES:

1. All dimensions in inches (mm).
2. Tolerance (except cable length): .xx = ±0.04
.xxx = ±0.010



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