

UP0451E-()()P SERIES

45 Watt AC/DC Adapter

- ◆ Universal Input 90 to 264 VAC
- ◆ EMI Meets FCC/CISPR 22 Class B
- ◆ MTBF 165Khrs
- ◆ Limited Power Source*
- ◆ RoHS Compliant

Green Product
RoHS



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 40A max.(Cold Start)

GENERAL SPECIFICATIONS

Hold-up Time 10mS typ.
Leakage Current 0.5mA max.
Short Circuit Protection Continuous
Overvoltage Protection Zener Clamp
Continuous Output Power 45W max.
Hi-pot Isolation: Input / Output 4242VDC

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 Meets FCC/CISPR 22 Class B Specification

* LPS(Limited Power Source) is an optional. The efficiency shall have a 3% less than non-LPS. This option can be ordered by adding the suffix "L" at the end of the model number. Example: UP0451E-12PL.



**UNIVERSAL
MICROELECTRONICS**

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OUTPUT SPECIFICATIONS

Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (Watts)	Efficient (typ.)	Ripple ¹ P-P (mV)	Total Regulation ²
		Min.	Rated				
UP0451E-12P	12	0	3.75	45	79%	100	±4%
UP0451E-15P	15	0	3	45	81%	150	±3%
UP0451E-18P	18	0	2.5	45	83%	150	±3%
UP0451E-19P	19	0	2.36	45	83%	200	±3%
UP0451E-24P	24	0	1.9	45	83%	200	±3%

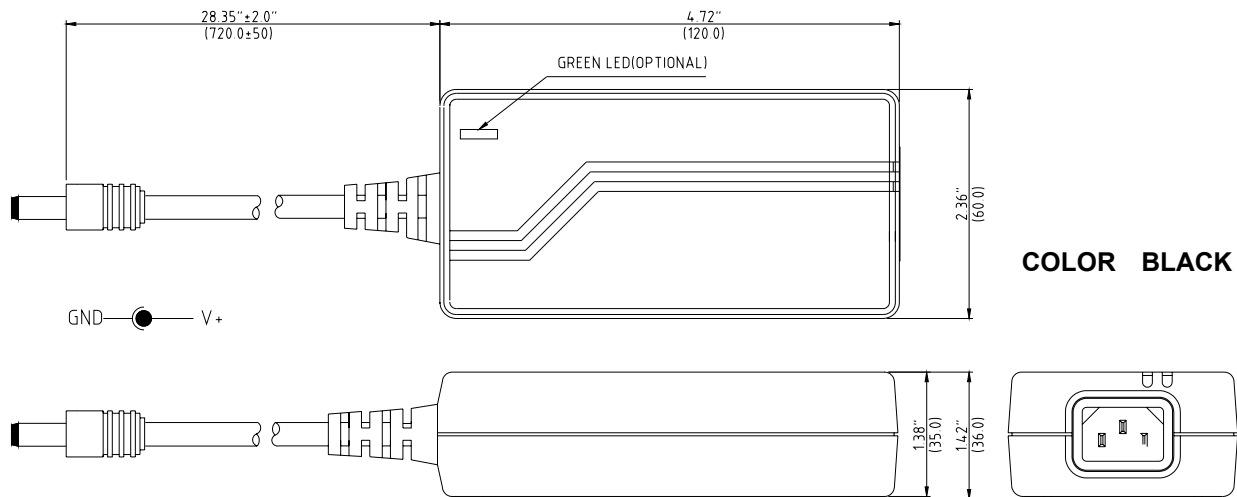
NOTES

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.

PHYSICAL SPECIFICATIONS

Weight: 300g

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



DC plug & pin assignment (CUSTOM DESIGN IS AVAILABLE)

IN 2.5(±0.2)/ OUT 5.5(±0.2)/ LENGTH 10(±0.5) (mm) DC PLUG FEMALES

NOTES:

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



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