

UP0402S-()(L)(I) SERIES

40 Watt Open Frame Switchers

- ◆ Small Size
- ◆ Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR 22 Class B
- ◆ Overvoltage Protection
- ◆ 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 40A max.(Cold Start)

GENERAL SPECIFICATIONS

Hold-up Time 16mS typ.
Efficiency 70% typ.
Leakage Current 3mA max.
Short Circuit Protection Continuous
Overvoltage Protection 5VDC output only
Continuous Output Power 40W max.
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

OUTPUT SPECIFICATIONS

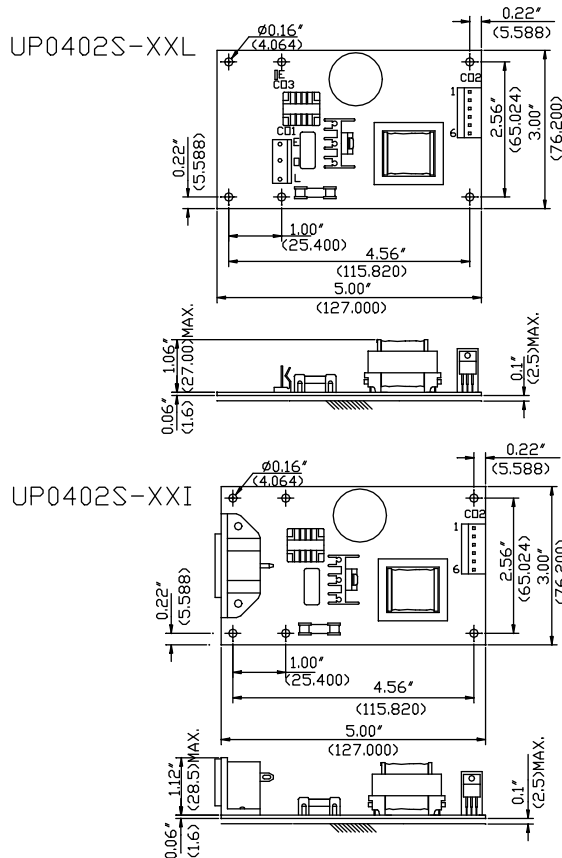
Model Number	Output ¹ Voltage (Volts)	Output Current (Amps)		Peak ² (Amps)	Ripple ³ P-P (mV)	Total Regulation ⁴
		Min.	Rated			
UP0402S-01(L)(I)	+5V (V1)	0	3	5	50	± 3%
	+12V (V2)	0	2	3	120	± 5%
UP0402S-02(L)(I)	+5V (V1)	0	3	5	50	± 3%
	+24V (V2)	0	1	1.5	240	± 5%

NOTES:

- The output voltage is set to ± 1%, with all the outputs at rated load.
- Peak output current lasting less than one minute with duty factor less than 5%. During peak loading (total output power must not exceed 45W), output voltage may exceed regulation limits.
- 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 20MHz 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.
- Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage within stated limits, but when V1 is maximum load and V2 is ≤ 1/10 maximum load, the total regulation will be ± 10%.V1 must have a minimum of 10% maximum load, for V3 to supply maximum load.

PHYSICAL SPECIFICATIONS

Weight: 200g



Pin	Input voltage
L&N	90-264 VAC
UP0402S-XXL	UP0402S-XXI
CN1 input connector Molex 09-65-2058 with second and fourth pin removed	INALWAYS-0714-2 PCB mounting
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals	

CN2 output connector Molex pin 09-65-2068		
Model		
Pin	UP0402S-01(L)(I)	UP0402S-02(L)(I)
1	+12V	+24V
2	+5V	+5V
3		
4	Common	Common
5		
6	NC	NC
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals		
CN3(option)input ground tab, tab size 4.8*0.5 (mm)		
With receptacle for 4.8*0.5 (mm) tab		

NOTES:

- All dimensions in inches (mm)
- Tolerance .XX = ± 0.05
.XXX = ± 0.020