

UMEC International Corporation

UP0301C SERIES

30~36 Watt AC/DC and DC/DC Open Frame

- ◆ Input AC & DC Power Redundant SMPS
- ◆ Universal Input 90 to 264 VAC & -36 to -72 VDC
- ◆ EMI Meets FCC/CISPR 22 Class B
- ◆ Continuous Short Circuit Protection
- ◆ Designed to Meets UL, CSA, TUV Safety Standards
- ◆ RoHS Compliant



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range 90-264VAC & -36~ -72VDC
Input Frequency 47-63 Hz
Inrush Current (AC Input) 40A max.(Cold Start)
Inrush Current (DC Input) 10A max.(Cold Start)

GENERAL SPECIFICATIONS

Hold-up Time (AC/DC) 10mS typ.
Leakage Current 3mA max.
Short Circuit Protection Continuous
Continuous Output Power 36W 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 Meets FCC/CISPR 22 Class B Specification



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OUTPUT SPECIFICATIONS

Model Number	Output Voltage (Volts)	Output Current (Amps)		Max Power (Watt)	Efficiency (min.)		Ripple ¹ P-P (mV)	Total Regulation ²
		Min.	Rated		AC/DC	DC/DC		
UP0301C-03 ³	3.3V	0.1	9	36	57%	63%	50	±5%
	48V	0	0.12				600	
UP0301C-05	5	0	6	30	60%	72%	50	±3%

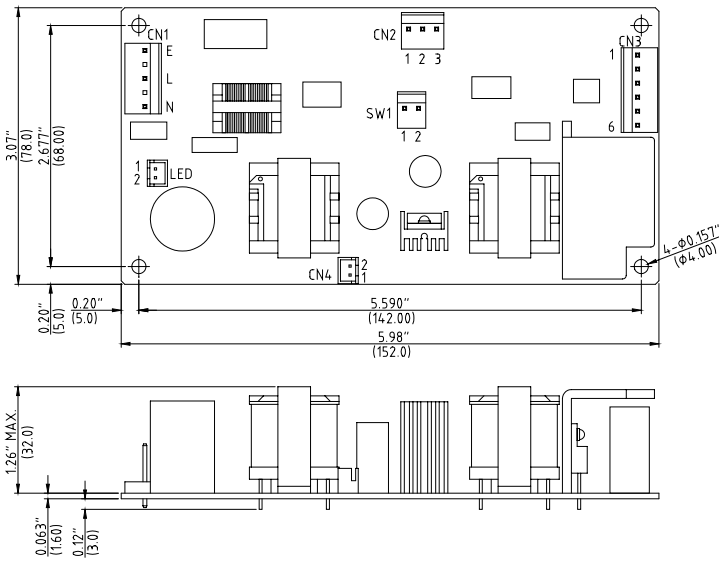
NOTES:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to the output connector. 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. CN4 (optional): It is 48V output connector for ringing-tone power requirement.
4. Without AC input voltage 90~264VAC, CH2 output voltage will depend on input voltage (DC 36~72VDC).

PHYSICAL SPECIFICATIONS

Weight: 220g

UP0301C-03



NOTE:

1. All dimensions in inches (mm).
2. Tolerance .XX=±0.05, .XXX=±0.020

CN1 AC input connector use Molex 09-65-2058 (or equivalent) with second and fourth pin removed.	
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.	
CN2 DC input connector use Molex 09-65-2038 (or equivalent)	
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.	
CN3 DC output connector use Molex 06-65-2068 (or equivalent)	
Model	
Pin	UP0301C-03
1	+3.3V
2	+3.3V
3	+3.3V
4	Common
5	Common
6	Common
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.	
CN4 & LED output control connector use TKP 8822-2P (or equivalent)	
TKP mating connector TKP 8822 series housing with 8821 series crimp terminals.	
SW1 (optional – use jumper-wire when switch unused) switch control connector use Molex 09-65-2028 (or equivalent)	
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.	

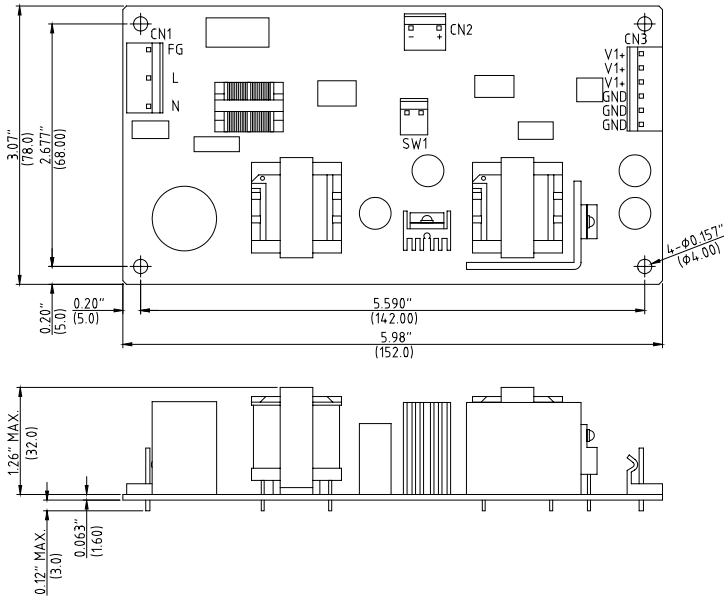


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UP0301C-05



NOTE:

1. All dimensions in inches (mm).
2. Tolerance .XX=±0.05, .XXX=±0.020

CN1 AC input connector use Molex 09-65-2058 (or equivalent) with second and fourth pin removed.
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.

CN2 DC input connector use Molex 09-65-2038 (or equivalent) with second pin removed.
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.

CN3 DC output connector use Molex 06-65-2068 (or equivalent)

Model	
Pin	UP0301C-05
1	+5V
2	+5V
3	+5V
4	Common
5	Common
6	Common

Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.

SW1 (optional – use jumper-wire when switch unused) switch control connector use Molex 09-65-2028 (or equivalent)

Molex mating connector Molex 5195 series housing with 5194 series crimp terminals.



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