

UMEC International Corporation

UP0301S SERIES

30 Watt Open Frame Switchers

- ◆ Small Size
- ◆ Universal Input 90 to 264 VAC
- ◆ EMI Meets FCC/CISPR 22 Class B
- ◆ MTBF 420Khrs
- ◆ 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 30A 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 30W 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 ¹ Voltage (Volts)	Output Current (Amps)		Peak ² (Amps)	Max. Power (watts)	Ripple ³ P-P (mV)	Total Regulation ⁴
		Min.	Rated				
UP0301S-03 ⁵	3.3	0	6	7.2	20	50	±3%
UP0301S-05	5	0	5	6	25	50	±3%
UP0301S-09	9	0	3	3.3	27	100	±3%
UP0301S-12	12	0	2.5	3	30	120	±3%
UP0301S-15	15	0	2	2.4	30	150	±3%
UP0301S-18	18	0	1.67	2	30	180	±3%
UP0301S-24	24	0	1.25	1.5	30	240	±3%
UP0301S-48 ⁵	48	0	0.65	0.78	30	480	±4%

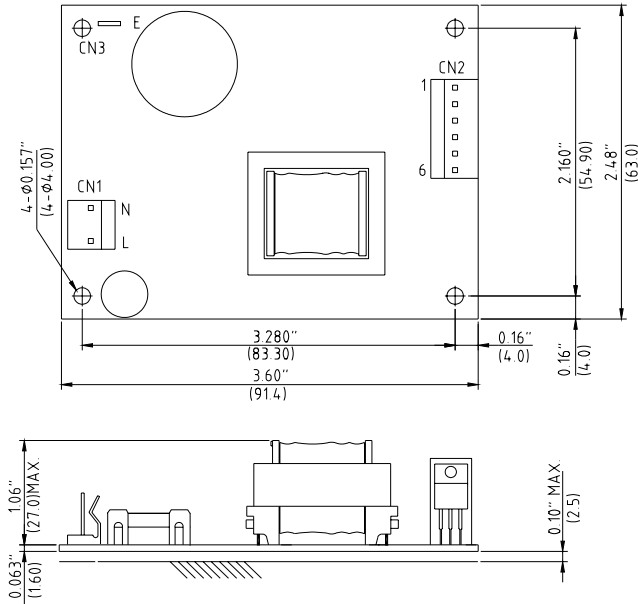
NOTES:

- The output voltage is set to ±1%, with all the outputs at rated load. And the adjustable range is ±5%.
- Peak output current lasting less than one minute with duty factor less than 5%. During peak loading 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 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.
- Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage within stated limits. And load currents within stated limits.
- Safety Pending.

PHYSICAL SPECIFICATIONS

Weight: 180g

MAXIMUM COMPONENT HEIGHT 1.06"(27.0)



NOTE:

- All dimensions in inches (mm).
- Tolerance .xx=±0.05" .xxx=±0.020"

CN1 input connector	
Molex 09-65-2038 with second pin removed	
Pin	Input voltage
L&N	90-264 VAC
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals	

CN2 output connector Molex pin 09-65-2068	
Model	
Pin	UP0301S-XX
1	Vo
2	
3	
4	Common
5	
6	
Molex mating connector Molex 5195 series housing with 5194 series crimp terminals	

CN3 input ground tab, tab size 4.8*0.5(mm)	
With receptacle for 4.8*0.5(mm) tab	



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