

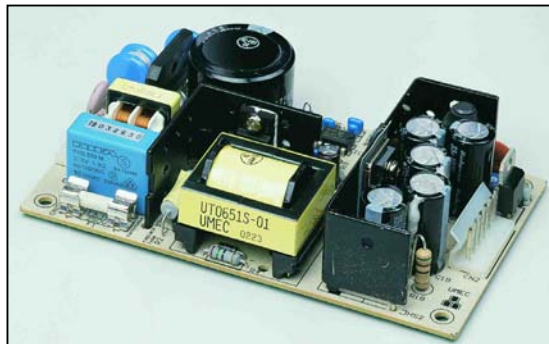
# UMEC International Corporation

## UP0651S SERIES

### 65 Watt Open Frame Switchers

- ♦ Small Size 3"X 5" Footprint
- ♦ Universal Input 90 to 264 VAC
- ♦ EMI Meets FCC/CISPR 22 Class B
- ♦ MTBF 210Khrs
- ♦ 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)  
Line Regulation<sup>1</sup> ..... ±0.5%

#### GENERAL SPECIFICATIONS

Hold-up Time ..... 16mS typ.  
Efficiency ..... 75% typ.  
Leakage Current ..... 3mA max.  
Short Circuit Protection ..... Continuous  
Overvoltage Protection ..... All models  
Overload Protection..... 120-200% of rated value  
Continuous Output Power ..... 65W max.  
Hi-Pot Isolation..... 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

#### NOTES:

1. Measured from 90 to 264 VAC.



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## OUTPUT SPECIFICATIONS

Model Number	Output <sup>1</sup> Voltage (Volts)	Output Current (Amps)		Peak <sup>2</sup> (Amps)	Ripple <sup>3</sup> P-P (mV)	Load Regulation <sup>4</sup> Load Change 0-100%	Output voltage polarity
		Min.	Rated				
UP0651S-01	5	0.0	12	14.0	50	±0.5%	Output may be referenced positive or negative
UP0651S-02	12	0.0	5.4	6.5	120	±0.5%	
UP0651S-03	15	0.0	4.3	5.2	150	±0.5%	
UP0651S-04	24	0.0	2.7	3.7	240	±0.5%	
UP0651S-10	48	0.0	1.35	1.62	480	±0.5%	

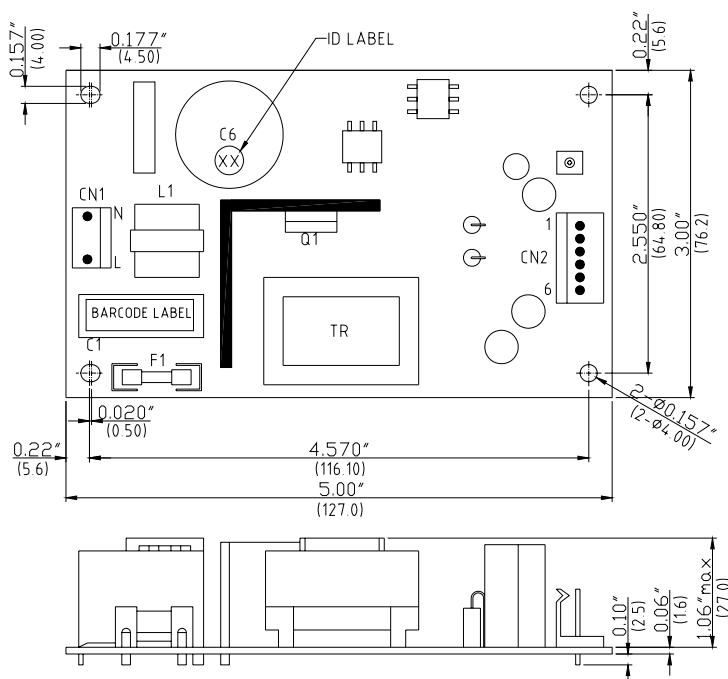
## NOTES

1. The output voltage is set to ±1%, with all the outputs at rated load. And the adjustable range is ±5%.
2. Peak output current lasting less than one minute with duty factor less than 5%. During peak loading voltage may exceed regulation limits.
3. Add a 0.1uF ceramic capacitor and a 47uF 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.
4. Load regulation is measured at 115VAC or 230VAC input, and by varying the load from 0% to 100% of rated load.
5. Replace input line fuse with same type rating. Recommended 3A/250 VAC or 3.15A/250VAC time lag fuse.

## PHYSICAL SPECIFICATIONS

Weight: 265g

## MECHANICAL OUTPUT AND PIN CONNECTION



CN1 input connector Molex 09-65-2058 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	UP0651S-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	

## NOTES

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



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