UP0403S-()() SERIES

40 Watt Open Frame Switchers

- Small Size
- Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR 22 Class B
- MTBF 600Khrs









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 ¹	±1%

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

· · · · · · · · · · · · · · · · · · ·	ge 0°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

NOTE:

1. Measured from 90 to 264 VAC.

OUTPUT SPECIFICATIONS

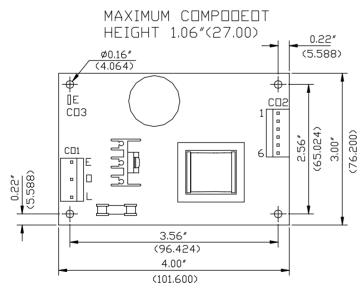
Model Number	Output ¹ Voltage (Volts)	Output Current ² (Amps)		Ripple⁴ P-P	Load Regulation⁵		Cross ⁶	
					Load Change			
		Min.	Rated	Max.	(mV)	30-60%	60-100%	Regulation
	+5	0.0	3	5	100	± 1%	± 1%	
UP0403S-01	+12	0.0	2	3	120	± 3%	± 3%	± 4.0%
	-12	0.0	0.2	0.5	120	± 1%	± 1%	± 1.0%
	+5	0.0	3	5	100	± 1%	± 1%	
UP0403S-02	+12	0.0	2	3	120	± 3%	± 3%	± 4.0%
	- 5	0.0	0.2	0.5	50	± 1%	± 1%	± 1.0%
UP0403S-03	+5	0.0	3	5	100	± 1%	± 1%	
	+24	0.0	1	1.5	240	± 3%	± 3%	± 4.0%
	-12	0.0	0.2	0.5	120	± 1%	± 1%	± 1.0%

NOTES:

- 1. The 5V output voltage is set to \pm 1%, with all the outputs at rated load.
- 2. The +12V output on all models will accept pulse load currents up to 3A, for disk drive applications. The +24V will accept pulse load currents up to 1.5A. Period must be less than 500 mS at a 10% duty cycle. The average current must be less than the maximum current.
- 3. Peak output current lasting less than one minute with duty factor less than 5%. During peak loading voltage may exceed regulation limits.
- 4. 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.
- 5. Load regulation is measured at 115VAC or 230VAC input while the output being measured is loaded 60% of rated load and varied +40/-30% of rated load. All other outputs at rated load.
- 6. Cross regulation is measured at the outputs as following: +12V and +15V at 1.5A or +24V at 1A, -12V at 0.2A or -5V at 0.5A, then varying the +5V output load current from 1.5A to 3A note the effects of load and cross regulation are not cumulative, and may actually act to cancel each other in an operating system environment.

PHYSICAL SPECIFICATIONS

Weight: 200g



NOTE:

- 1. All dimensions in inches (mm).
- 2. Tolerance .xx = \pm 0.05 .xxx = \pm 0.020

CN1 input connector			
Molex 09-65-2058			
with second and fourth 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	UP0403S-01	UP0403S-02	UP0403S-03		
1	+12V	+12V	+24V		
2	+5V	+5V	+5V		
3	101	101	101		
4	Common Common		Common		
5	Common Common				
6	6 -12V -5V -12V				
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

