UP0402S-()() SERIES

40 Watt Open Frame Switchers

- Small Size
- Universal Input 90 to 264 VAC
- Conductive EMI Meets FCC/CISPR 22 Class B
- MTBF 390Khrs





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

Operating Temperature Rang	ge 0°C to 70°C
Derating 50°C to 70°C	
Temperature Coefficient	± 0.02%/°C
Storage Temperature Range	
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

	Output ¹ Output Current ² Ripple ⁴		Ripple ⁴	Load Regulation ⁵				
Model	Voltage		(Amps)		P-P	Load Change		Regulation
Number	(Volts)	Min.	Rated	Max.	(mV)	30-60%	60-100%	
	+5	0.0	3	5	100	± 1%	± 1%	
0F04023-01	+12	0.0	2	3	120	± 3%	± 3%	± 4.0%
11004026 02	+5	0.0	3	5	100	± 1%	± 1%	
0P04025-02	+24	0.0	1	1.5	240	± 3%	± 3%	± 4.0%

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.
- 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.
- 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 +1.5A or +24V at 1A, 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



CN1 input connector				
Molex 09-6	65-2058 with seco	ond and fourth pin removed		
	Pin	Input voltage		
	L&N	90-264 VAC		
Molex mating connector				
	Molex 519	95 series		
housing with 5194 series crimp terminals				
CN2 output connector				
	Molex pin 0)9-65-2068		
Model				
Pin	UP0402S-01	1 UP0402S-02		
1	+12V	+24V		
2	15\/	151/		
3	+37	+3 V		
4	Common	Common		
5	Common	Common		
6	NC NC			
Molex mating connector Molex 5195 series				
housing with 5194 series chimp terminals				
CN3(option)input ground tab, tab size 4.8*0.5(mm)				
With receptacle for 4.8*0.5(mm) tab				

NOTE:

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

 $.xxx = \pm 0.020$

