



Tel: (805) 522 0888 Fax: (805) 522-8777

Web
Email

www.autec.com
Autecsales@autec.com

40W/60W Open Frame Universal Input AC/DC Converter

3" x 5" Dual Output



| Model UPS40-2002, UPS40-3002 | Power | Full | Peak |
|------------------------------|-------|------|------|
| | | 40W | 60W |

| | | | | | | | | | |
|------------------|---|----------------|-----------------------|---|----------------------|---------------------|----------------|------------------------------|-------|
| | Output | | | | | | | | |
| | Model | Output Voltage | Tolerance | Min Output Current | Rated Output Current | Peak Output Current | Ripple & Noise | Regulation Load Line | |
| | UPS40-2002 | 5.0V | +/- 3.00% | 0.2A | 3.0A | 3.0A | 50mV | 3.00% | 0.50% |
| | | 12.0V | +/- 5.00% | 0.1A | 2.0A | 3.0A | 120mV | 5.00% | 1.00% |
| | UPS40-3002 | 5.0V | +/- 3.00% | 0.0A | 3.0A | 3.5A | 50mV | 2.00% | 1.00% |
| | | 12.0V | +/- 5.00% | 0.1A | 2.0A | 3.0A | 120mV | 5.00% | 1.00% |
| | Auxiliaries Outputs | | | | | | | | |
| | | Output Voltage | Tolerance | | Rated Output Current | | Ripple & Noise | Regulation Load Line | |
| Fan | UPS40-2002 | 12V | n/a | | n/a | | n/a | n/a | n/a |
| Fan | UPS40-3002 | 12V | n/a | | n/a | | n/a | n/a | n/a |
| LED | UPS40-3002 | 5V | n/a | | n/a | | n/a | n/a | n/a |
| | Input | | | | | | | | |
| | Voltage AC | | | | | | Min | Nom | Max |
| | Frequency | | | | | | 90 | | 260 |
| | Inrush Current | | | | | | 47 | | 63 |
| | Switching Frequency | | | | | | 20 | | 40 |
| | Hold-up Time | | | | | | | 40K Hz. | |
| | Fusing | | | | | | | | |
| | 2A, Slow-blow 115/230 VAC Non-User Servicable | | | | | | | | |
| | Output | | | | | | Min | Nom | Max |
| | Efficiency | | | Full Load 120 VAC | | | 65 | 70 | |
| | Overvoltage Protection | | | UPS40-2002 +5V exceeds 5.8V Causes shutdown, automatic recovery | | | | | |
| | Overvoltage Protection | | | UPS40-3002 +5V exceeds 115-135% Causes shutdown, automatic recovery | | | | | |
| | Overload Protection | | | All ouputs proteced against short circuit conditions, automatic recovery. | | | | | |
| | Remote Sense | | | n/a | | | | | |
| | Environmental | | | | | | | | |
| | Temperature coefficient | | 0.02%/°C, All outputs | | | | | | |
| | Temperature Range | | Operational | 0 to 50°C at rated output power. Derates linearly to 50% power at 70oC | | | | | |
| | | | Storage | -55°C to 85°C | | | | | |
| | Safety, Regulatory & EMI | | | | | | | | |
| | UL1950 | | | | | | | | |
| | CSA C22.2 N).234 | | | | | | | | |
| Agency Approvals | TUV EN60950 | | | | | | | | |
| | Meets F.C.C part 15 class 'B' conducted. | | | | | | | | |
| EMI | | | | | | | | | |

PIN ASSIGNMENTS UPS40-2002REV.F

| CONNECTOR | P101 | P102 | P103 | P104 |
|------------------|------------|------------|------------|------------|
| FUNCTION | AC INPUT | DC OUTPUT | FAN | LED |
| PIN 1 | LINE | +12V | FAN+ | LED- |
| PIN 2 | N/C | GND | FAN- | LED+ |
| PIN 3 | NEUTRAL | GND | | |
| PIN 4 | N/C | +5V | | |
| PIN 5 | F.G. | | | |
| MOLEX (or equiv) | 09-65-2058 | 09-65-2048 | 09-65-2028 | 22-04-1021 |
| MATING | 09-50-1051 | 09-50-1041 | 09-50-1021 | 22-01-3027 |

PIN ASSIGNMENTS UPS40-3002

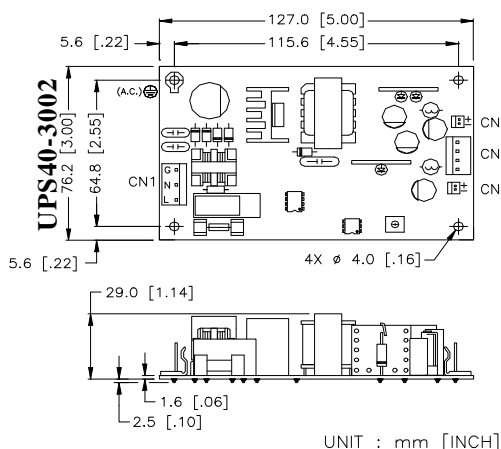
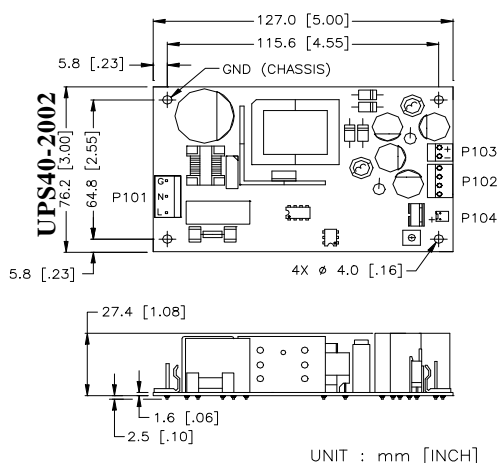
| CONNECTOR | CN1 | CN2 | CN3 | CN4 |
|------------------|------------|------------|------------|------------|
| FUNCTION | AC INPUT | DC OUTPUT | LED | FAN |
| PIN 1 | LINE | +12V | LED+ | FAN+ |
| PIN 2 | N/C | GND | LED- | FAN- |
| PIN 3 | NEUTRAL | GND | | |
| PIN 4 | N/C | +5V | | |
| PIN 5 | F.G. | | | |
| MOLEX (or equiv) | 09-65-2058 | 09-65-2048 | 22-04-1021 | 22-04-1021 |
| MATING | 09-65-1051 | 09-50-1041 | 22-01-3027 | 22-01-3027 |

| UPS40-2XXX | OUTLINE | inch | WIDTH | LENGTH | HEIGHT |
|------------|----------|------|-------|--------|--------|
| | | mm | 3.00 | 5.00 | 1.10 |
| | MOUNTING | inch | 76.2 | 127.0 | 27.9 |
| | | mm | 2.55 | 4.55 | N/A |
| | | mm | 64.8 | 115.6 | N/A |

| UPS40-3002 | OUTLINE | inch | WIDTH | LENGTH | HEIGHT |
|------------|----------|------|-------|--------|--------|
| | | mm | 3.00 | 5.00 | 1.14 |
| | MOUNTING | inch | 76.2 | 127.0 | 29.0 |
| | | mm | 2.55 | 4.55 | N/A |
| | | mm | 64.8 | 115.6 | N/A |

SHIPPING SPECIFICATIONS

| MODEL | UNITS PER CARTON | CARTON WEIGHT | |
|------------|------------------|---------------|----------|
| UPS40-3002 | 64 | 19.5 kgs | 43.0 lbs |
| UPS40-2002 | 64 | 15.5 kgs | 34.2 lbs |



NOTES:

1. Total peak power must not exceed the value indicated with each output not exceeding its peak current rating. The power supply may be capable of providing more than the specified continuous and/or peak ratings. Consult a factory Sales Engineer for feasibility.
2. Minimum load specified assures output voltage stability for all specified line voltage conditions. Full compliance to the total regulation specification may require additional loading (not to exceed 25% of rated output current). Operation at no load will not damage the power supply.
3. Each output can provide its full rated output current, provided total wattage does not exceed nominal (continuous) rating.
4. Peak Power is available for 30 seconds maximum with a 10% duty cycle.
5. Total regulation includes the combined effects of: a) initial set point of main output of $\pm 1\%$ max; b) line regulation for any input voltage change between 90 & 264 VAC; c) load regulation for a MIN. -100% of rated continuous load change: assumes that the total continuous power rating of the supply is not exceeded. [See Note3]. Performance during peak loading conditions is not included in the figure.
6. Specifications are subject to change without notice. AUTECH cannot be held liable for errors or omissions or the consequences thereof.