UP020()A-()()(I)(H) SERIES

20 Watt AC/DC Switching Modules

- Small Size
- Universal Input 90 to 264 VAC
- ◆ Conductive EMI Meets FCC/CISPR 22 Class B
- MTBF 390Khrs
- Designed to Meets UL,CSA,TUV Safety Standards

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) |
| Line Regulation ¹ | ± 1% |

GENERAL SPECIFICATIONS

| Hold-up Time | 16mS typ. |
|---------------------------------|------------------|
| Short Circuit Protection | Continuous |
| Overvoltage Protection | 5VDC Output Only |
| Hi-pot Isolation: Input/ Output | 4242 VDC |

ENVIRONMENTAL SPECIFICATIONS

| Operating Temperature Range | ge 0°C to 50°C |
|-----------------------------|----------------------------|
| Derating 40°C to 50°C | 2%/°C |
| Temperature Coefficient | ± 0.02%/°C |
| Storage Temperature Range | e –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 Voltage ¹ (Volts) | Output Current (mA) | Ripple ² P-P (mV) | Efficiency (%) | Load Regulation ³ Load Change 25-100% | Case |
|--------------|-------------------------------------|------------------------|---------------------------------|-------------------|--|------|
| UP0201A-01I | 5 | 4000 | 50 | 73 | ± 1% | I1 |
| UP0201A-02I | 12 | 1700 | 120 | 73 | ± 1% | 11 |
| UP0201A-03I | 15 | 1400 | 150 | 73 | ± 1% | I1 |
| UP0202A-01I | ± 5 | ± 2000 | 50 | 73 | ± 5% | I1 |
| UP0202A-02I | ± 12 | ± 850 | 120 | 73 | ± 3% | I1 |
| UP0202A-03I | ± 15 | ± 700 | 150 | 73 | ± 3% | I1 |
| UP0201A-01H | 5 | 4000 | 50 | 73 | ± 1% | Н |
| UP0201A-02H | 12 | 1700 | 120 | 73 | ± 1% | Н |
| UP0201A-03H | 15 | 1400 | 150 | 73 | ± 1% | Н |
| UP0202A-01H | ± 5 | ± 2000 | 50 | 73 | ± 5% | Н |
| UP0202A-02H | ± 12 | ± 850 | 120 | 73 | ± 3% | Н |
| UP0202A-03H | ± 15 | ± 700 | 150 | 73 | ± 3% | Н |

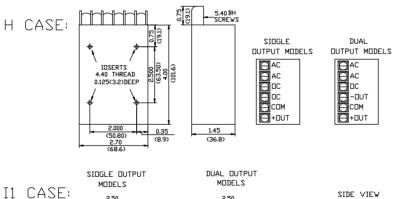
NOTES:

- 1. The single output voltage is set to ± 1% ,dual output voltage is set to ± 2% at rated load. Voltage balance for dual output at rated load is 2% max..
- 2. 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 band width. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
- 3. Load regulation is measured at 115VAC or 230VAC input, while the output being measured is loaded 25% to 100% of rated load. All other outputs at rated load.

PHYSICAL SPECIFICATIONS

Weight: Case I1:200g, Case H:420g

Case Material: Non conductive black plastic



NOTES:

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

