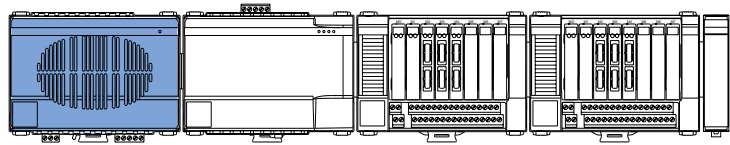


## POWER SUPPLY

### FEATURES

- Rugged Construction
- UL, CSA, CE Certified
- Some Models Provide Built-In Redundancy
- Wide Input Voltage Ranges
- Compact Package
- Wide Operating Temperature Range
- DIN Rail Mountable



POWER SUPPLY UNIT ON OPENLINE® SYSTEM

### SPECIFICATIONS

#### General

#### Terminal Blocks:

J2: 1 row of 6 for internal bus power (Mating connector not included<sup>3</sup>)

J3: 1 row of 3 for AC input. (Mating plug included)

J4: 1 row of 4 for auxiliary loads (Mating plug included)

Terminals Screw Torque: 7-9 in-lbs

Bus Output: +5V output can be run in parallel with other bus supplies.

### SPECIFICATIONS

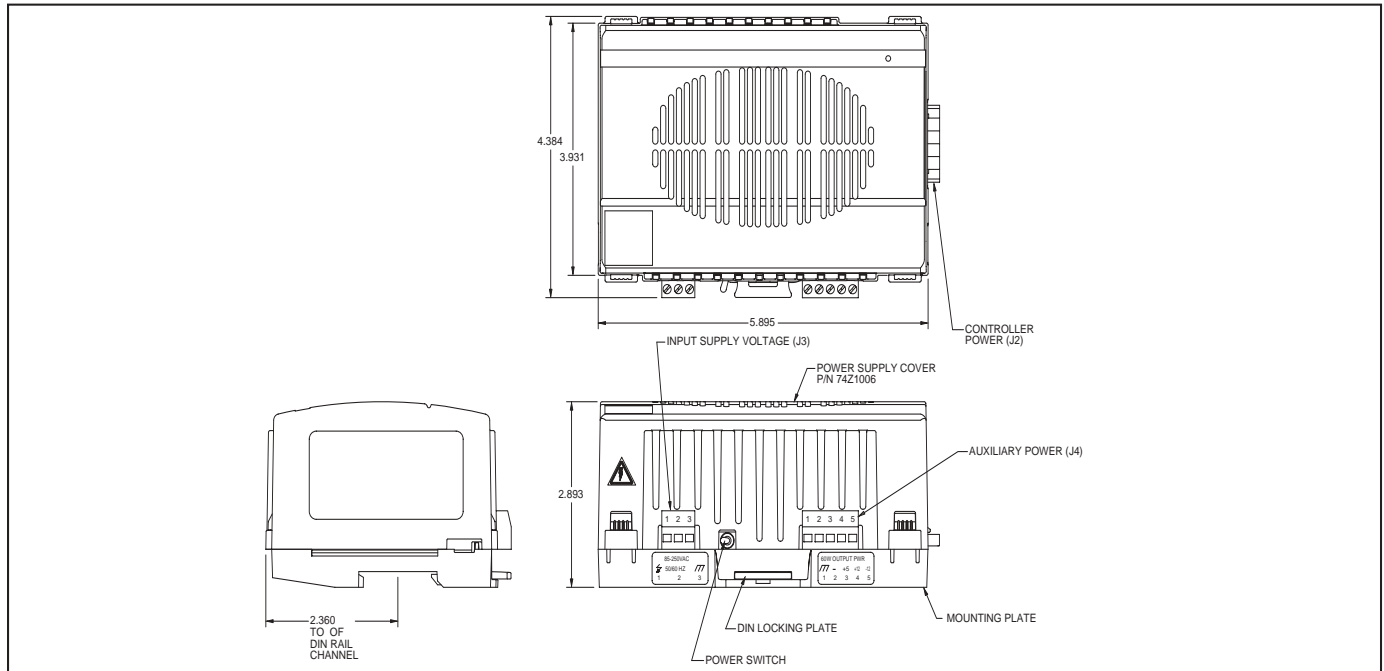
| Specification                           | 74-PWR-AC1  | 74-PWR-AC2   | 74-PWR-AC3   |
|---|---|--|--|
| Input Voltage Range:                    | 85-250 Vac  | 85-250 Vac   | 85-250 Vac   |
| Input Frequency Range:                  | 47-440 Hz   | 47-440 Hz  | 47-440 Hz  |
| Input Current:                          | 1.5A @ 115 Vac  | 1.0A max. (RMS) @115 Vac   | 1.0A max. (RMS) @115 Vac   |
| Output Voltage Ranges:                  | 4.8 to 5.2 Vdc,<br>11.7 to 12.9 Vdc, &<br>-11.7 to 12.9 Vdc           | 4.8 to 5.2 Vdc,<br>11.7 to 12.9 Vdc, &<br>-11.7 to 12.9 Vdc          | 4.8 to 5.2 Vdc   |
| Maximum Output Current <sup>1</sup> :   | 7.0A @ 0-40°C derate<br>2.5% per degree 40-70°C                       | 3.0A @ 0-40°C, derate<br>2.5% per degree 40-70°C                     | 5.0A @ 0-40°C, derate<br>2.5% per degree 40-70°C                     |
| Minimum Load Current:                   | 0A @  | 0.3A @ 5 Vdc   | 0A   |
| Secondary Output Current <sup>2</sup> : | NA  | NA   | NA   |
| Efficiency:                             | 70% typical   | 70% typical at full load   | 70% typical at full load   |
| Ripple:                                 | <50 mV  | <50 mV   | <50 mV   |
| Indicator:                              | 1 green power supply OK LED <sup>4</sup>                              | 1 green power supply OK LED <sup>4</sup>                             | 1 green power supply OK LED <sup>4</sup>                             |
| Conductor Size:                         | (1) 14 AWG or (2) 16 AWG  | (1) 14 AWG or (2) 16 AWG   | (1) 14 AWG or (2) 16 AWG   |
| Protection:                             | 3.15A @ 250 Vac fuse,<br>overload and reverse<br>polarity protection. | 2.0A @ 250 Vac fuse,<br>overload and reverse<br>polarity protection. | 2.0A @ 250 Vac fuse,<br>overload and reverse<br>polarity protection. |

<sup>1</sup> Output current rating assumes horizontal DIN rail or panel mounting, no cover and no auxiliary air flow. For horizontal mounting with cover, current rating is specified from 0 to 30°C, derate 2.5% per degree 30 to 70°C. For vertical mounting with cover, current rating is derated 15% from 0 to 30°C, derate additional 2.5% per degree from 30 to 60°C.

<sup>2</sup> -5V output current is derived from +5V output using a DC-DC converter with 75% efficiency. Therefore, +5V output maximum current is derated by 1.33 x -5V output current.

<sup>3</sup> PC mount mating plug connector Phoenix Contact type MSTB 2.5/6-G-5.08.

<sup>4</sup> Power LED will pulse on and off if min. load requirement for proper regulation is not met.

**DIMENSIONS** In inches (and millimeters)

**SPECIFICATIONS**

| Specification                         | Part Number: Non-Redundant Operations  |   |   |
|---------------------------------------|--|---|---|
|                                       | 74-PWR-AC4   | 74-PWR-AC5  | 74-PWR-DC24   |
| Input Voltage Range:                  | 85-250 Vac   | 85-250 Vac  | 18-36 Vdc   |
| Input Frequency Range:                | 47-440 Hz  | 47-440 Hz   |   |
| Input Current:                        | 1.5A max. (RMS) @ 115 Vac  | 1.0A max. (RMS) @ 115 Vac   | DC  |
| Efficiency:                           | 70% typical at full load   | 70% typical at full load  | 2.15A @ full load   |
| Output Voltage Ranges:                | 23.5 to 24.5 Vdc   | 4.8 to 5.2 Vdc, 11.7 to 12.9 Vdc, & -11.7 to 12.9 Vdc   | 4.8 to 5.3 Vdc, -4.8 to -5.2 Vdc, 11.4 to 12.9 Vdc, & -11.4 to -12.9 Vdc  |
| Maximum Output Current <sup>1</sup> : | 2.5A @ 0-40°C, derates 2.5% per degree 40-70°C   | 3.0A @ 0-40°C, derates 2.5% per degree 40-70°C  | 6.5A @ 0-35°C derates 1.2% per degree 35-105°C  |
| Minimum Output Current <sup>2</sup> : | 0A   | 0.3A @ 5 Vdc  | 0.7A @ 5 Vdc  |
| Secondary Output Current:             | NA   | +12V: 0.1A-0.7A, -12V: 0.0A-0.5A  | +12, -12, -5 Vdc: 0.70A @ 25°C  |
| Ripple:                               | <50 mV   | <50 mV  |   |
| Terminal Blocks:                      | J2: NA<br>J3: 1 row of 3 for AC input. (Mating plug included)<br>J4: 1 row of 4 for auxiliary loads (Mating plug included) | J2: 1 row of 6 for internal bus power (Mating connector not included <sup>3</sup> )<br>J3: 1 row of 3 for AC input. (Mating plug included)<br>J4: 1 row of 4 for auxiliary loads (Mating plug included) | J2: 1 row of 6 for internal bus power (Mating connector not included <sup>3</sup> )<br>J3: 1 row of 3 for AC input. (Mating plug included)<br>J4: 1 row of 4 for auxiliary loads (Mating plug included) |
| Indicator:                            | 1 green power supply OK LED  | 1 green power supply OK LED <sup>4</sup>  | 1 green power supply OK LED <sup>4</sup>  |
| Conductor Size:                       | (1) 14 AWG or (2) 16 AWG   | (1) 14 AWG or (2) 16 AWG  | (1) 14 AWG or (2) 16 AWG  |
| Terminal Screw Torque:                | 7-9 inch-pounds  | 7-9 inch-pounds   | 7-9 inch-pounds   |
| Protection:                           | 3.15A @ 250 Vac fuse, overload and reverse polarity protection.  | 2.0A @ 250 Vac fuse, overload and reverse polarity protection.  | 2.0A @ 250 Vac fuse, overload and reverse polarity protection.  |
| Bus Output:                           | Output cannot be parallel  | Output cannot be parallel   | Output cannot be parallel   |

<sup>1,2,3,4</sup> See previous page.

**ACCESSORIES**

See p. L-54

**ORDERING INFORMATION**

| Part Number | Description                                     | Part Number | Description  |
|-------------|---|-------------|--|
| 74-PWR-AC1  | 85-250 Vac in, 7A @ 5 Vdc, +12 Vdc, -12 Vdc out | 74-PWR-AC4  | 85-250 Vac in, 2.5A @ 25 Vdc out                   |
| 74-PWR-AC2  | 85-250 Vac in, 3A @ 5 Vdc, +12 Vdc, -12 Vdc out | 74-PWR-AC5  | 85-250 Vac in, 3A @ 24 Vdc out, auxilliary outputs |
| 74-PWR-AC3  | 85-250 Vac in, 5A @ 5 Vdc,                      | 74-PWR-DC24 | 18-36 Vdc in, 6.5A @ 5 Vdc out, auxilliary outputs |

Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized Distributor or Grayhill.