



PCB Single O/P - 3.5"L x 2.5"W x 0.98"H,  
Multi O/P - 4.06"L x 2.5"W x 0.98"H  
Chassis 4.76"L x 2.56"W x 1.0"H

- Single / Dual / Triple Outputs
- Universal 85VAC to 265VAC Input
- 3.3VDC to 24VDC Outputs
- 3,000VAC Input to Output Isolation
- PCB and Chassis Mount Packages
- Full Safety Approvals



Fully Approved  
UL/CSA22.2 60950-1 File# E167432  
EN60950 File# B021022749041  
IEC60950-1 File# DE353936

| Model Number                          | Output Voltage | Output Amps | Output Watts |
|---------------------------------------|----------------|-------------|--------------|
| <b>SINGLE OUTPUT - PCB Mount</b>      |                |             |              |
| MSCA-0300                             | 3.3 VDC        | 7.5         | 25W          |
| MSCA-0301                             | 5 VDC          | 6           | 30W          |
| MSCA-0302                             | 12 VDC         | 2.5         | 30W          |
| MSCA-0303                             | 15 VDC         | 2           | 30W          |
| MSCA-0305                             | 24 VDC         | 1.25        | 30W          |
| <b>SINGLE OUTPUT - Chassis Mount</b>  |                |             |              |
| MSCC-0300                             | 3.3 VDC        | 7.5         | 25W          |
| MSCC-0301                             | 5 VDC          | 6           | 30W          |
| MSCC-0302                             | 12 VDC         | 2.5         | 30W          |
| MSCC-0303                             | 15 VDC         | 2           | 30W          |
| MSCC-0305                             | 24 VDC         | 1.25        | 30W          |
| <b>SINGLE OUTPUT - DIN Rail Mount</b> |                |             |              |
| MSCC-0300/DRL                         | 3.3 VDC        | 7.5         | 25W          |
| MSCC-0301/DRL                         | 5 VDC          | 6           | 30W          |
| MSCC-0302/DRL                         | 12 VDC         | 2.5         | 30W          |
| MSCC-0303/DRL                         | 15 VDC         | 2           | 30W          |
| MSCC-0305/DRL                         | 24 VDC         | 1.25        | 30W          |





PCB Single O/P - 3.5"L x 2.5"W x 0.98"H,  
Multi O/P - 4.06"L x 2.5"W x 0.98"H  
Chassis 4.76"L x 2.56"W x 1.0"H

- Single / Dual / Triple Outputs
- Universal 85VAC to 265VAC Input
- 3.3VDC to 24VDC Outputs
- 3,000VAC Input to Output Isolation
- PCB and Chassis Mount Packages
- Full Safety Approvals



Fully Approved  
UL/CSA22.2 60950-1 File# E167432  
EN60950 File# B021022749041  
IEC60950-1 File# DE353936

| Model Number                          | Output Voltage | Output Amps | Output Watts |
|---------------------------------------|----------------|-------------|--------------|
| <b>DUAL OUTPUT - PCB Mount</b>        |                |             |              |
| MDCA-0306                             | +/-12 VDC      | +/-1.25     | 30W          |
| MDCA-0307                             | +/-15 VDC      | +/-1        | 30W          |
| MDCA-0308                             | +5/12 VDC      | 3/1.25      | 30W          |
| <b>DUAL OUTPUT - Chassis Mount</b>    |                |             |              |
| MDCC-0306                             | +/-12 VDC      | +/-1.25     | 30W          |
| MDCC-0307                             | +/-15 VDC      | +/-1        | 30W          |
| MDCC-0308                             | +5/12 VDC      | 3/1.25      | 30W          |
| <b>DUAL OUTPUT - DIN Rail Mount</b>   |                |             |              |
| MDCC-0306/DRL                         | +/-12 VDC      | +/-1.25     | 30W          |
| MDCC-0307/DRL                         | +/-15 VDC      | +/-1        | 30W          |
| MDCC-0308/DRL                         | +5/12 VDC      | 3/1.25      | 30W          |
| <b>TRIPLE OUTPUT - PCB Mount</b>      |                |             |              |
| MTCA-0309                             | +5,+/-12 VDC   | 3,0.63/0.63 | 30W          |
| MTCA-0311                             | +5,+/-15 VDC   | 3,0.5/0.5   | 30W          |
| <b>TRIPLE OUTPUT - Chassis Mount</b>  |                |             |              |
| MTCC-0309                             | +5,+/-12 VDC   | 3,0.63/0.63 | 30W          |
| MTCC-0311                             | +5,+/-15 VDC   | 3,0.5/0.5   | 30W          |
| <b>TRIPLE OUTPUT - DIN Rail Mount</b> |                |             |              |
| MTCC-0309/DRL                         | +5,+/-12 VDC   | 3,0.63/0.63 | 30W          |
| MTCC-0311/DRL                         | +5,+/-15 VDC   | 3,0.5/0.5   | 30W          |



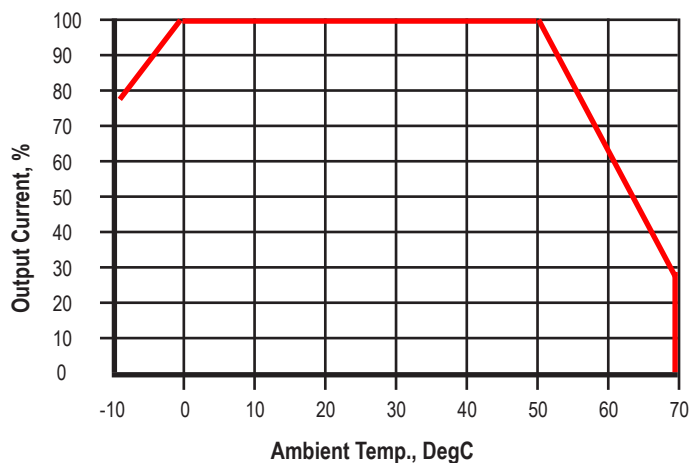
### INPUT SPECIFICATIONS

|                        |                         |
|------------------------|-------------------------|
| Input Voltage, Nominal | 85-265VAC               |
|                        | Nominal: 100-240VAC     |
| Input Frequency        | 47-440 Hz, 50-60Hz Nom. |
| Inrush Current         | 20A @ 100VAC, typ       |
|                        | 40A @ 200VAC, typ       |

### OUTPUT SPECIFICATIONS

|                          |                               |
|--------------------------|-------------------------------|
| Output Voltage/Current   | See Specific Model            |
| Initial Accuracy         | +/-1%, adjustable             |
| Voltage Adjust           | +/-6%, typ                    |
| Load Regulation          | +/-0.3%, typ                  |
| Line Regulation          | +/-0.3%, typ                  |
| Temperature Coefficient  | +/-0.03%/°C                   |
| Ripple/Noise(20Mhz BW)   | 150mV Pk-Pk, typ              |
| Overvoltage Protection   | Clamp, 130-150% *             |
| Hold Up Time             | 30mS, typ                     |
| Short Circuit Protection | Continuous, self-recovering * |
| Current Limit            | 130% typ, Self-Reset Foldback |

### PERFORMANCE CURVES



All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

### GENERAL SPECIFICATIONS

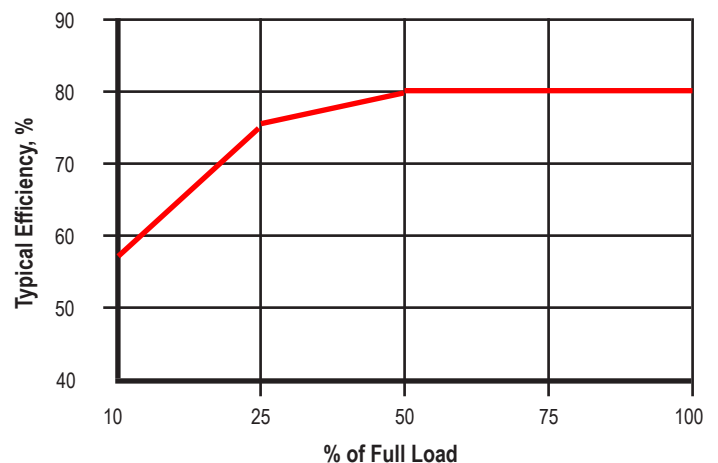
|                          |                   |
|--------------------------|-------------------|
| On/Off Control           | Open Collector    |
|                          | Logic "1"/Open=ON |
|                          | Logic "0"/GND=OFF |
| Input-Out Isolation      | 3000VAC           |
| Output-Ground Isolation  | 1000VAC           |
| Input-Ground Isolation   | 2500VAC           |
| Operating Frequency      | 140 Khz, fixed    |
| Efficiency (@ Full Load) | 75 - 80%, typ     |

### ENVIRONMENTAL SPECIFICATIONS

|                           |                            |
|---------------------------|----------------------------|
| Oper. Temperature         | 0 to +50°C FL See Derate * |
|                           | (Free-air Convection)      |
| Relative Humidity         | 0-95%, Non-Condensing      |
| Storage Temperature       | -25 to +71°C *             |
| MTBF, Single/Multi Output | 180,000 Hrs/110,000 Hrs    |
|                           | Mil Std 217, 25C           |

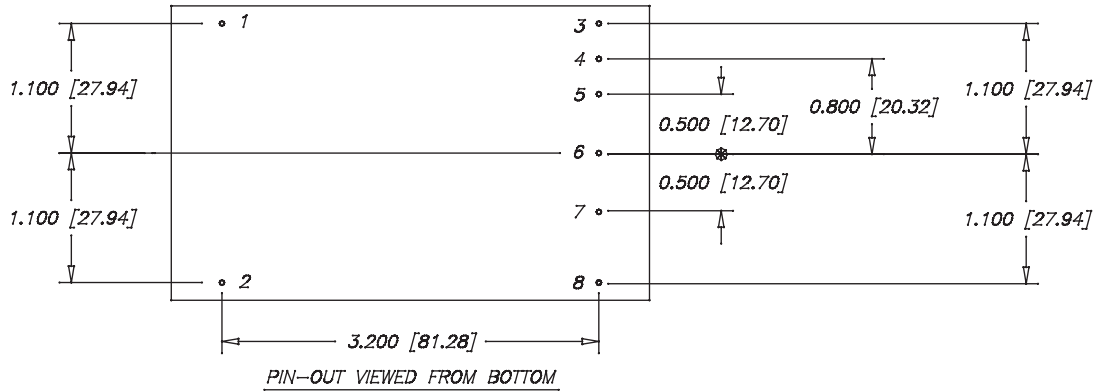
### PHYSICAL SPECIFICATIONS

|               |   |
|---------------|---|
| Case Material | Rynite, 94V-0 Rated                           |
| Construction  | Encapsulated, Soft Pot                        |
| Weight        | PCB / CHA                                     |
|               | Singles 10.4 oz (292g) / 13.4 oz (376g)       |
|               | Duals/Triples 12.1 oz (340g) / 15.4 oz (430g) |

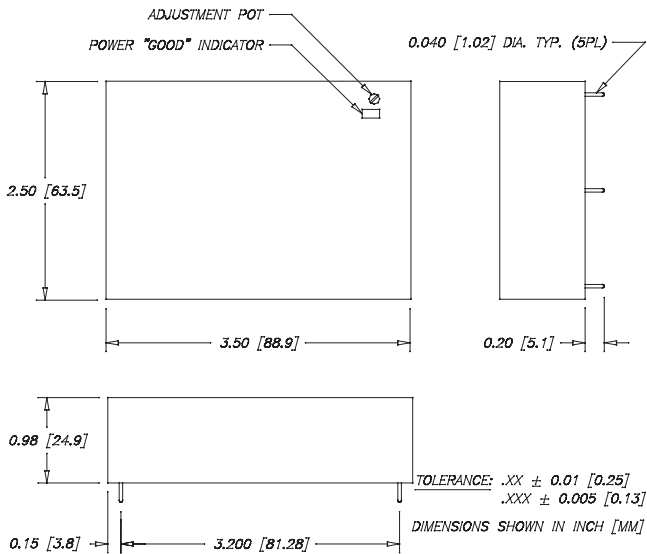


**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

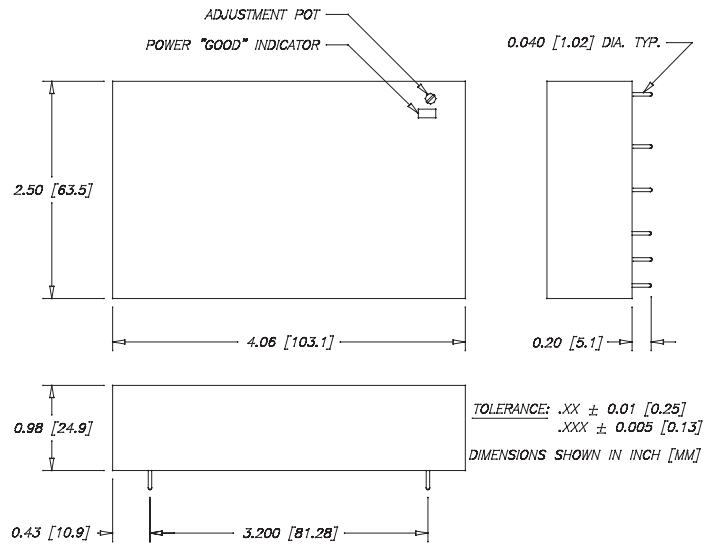
### MECHANICAL DIMENSIONS - PCB MOUNT



### SINGLE OUTPUT

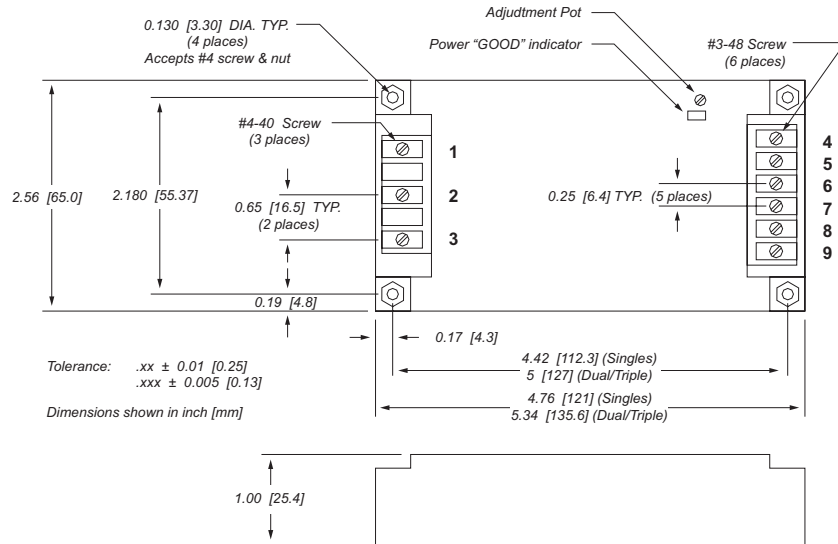


### DUAL/TRIPLE OUTPUT

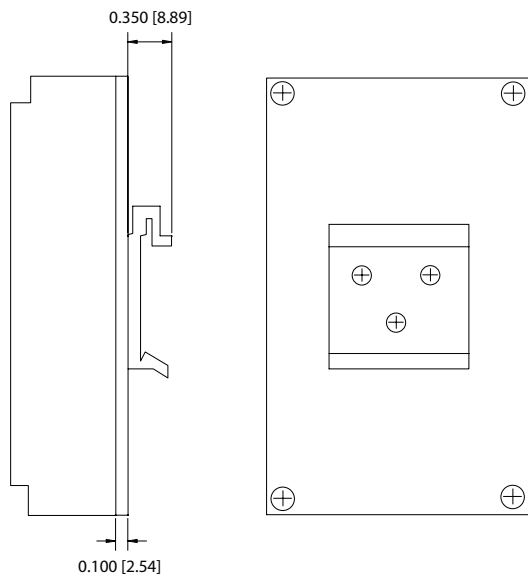


| Model Type / Pin# | Single | Dual Matched | Dual 5/12V | Triple |
|-------------------|--------|--------------|------------|--------|
| 1                 | AC HI  | AC HI        | AC HI      | AC HI  |
| 2                 | AC LO  | AC LO        | AC LO      | AC LO  |
| 3                 | Ctrl   | -Vout        | Com        | -Vout  |
| 4                 | No Pin | Ctrl         | Ctrl       | Ctrl   |
| 5                 | No Pin | No Pin       | No Pin     | +5 Ret |
| 6                 | -Vout  | Com          | +5out      | +/-Com |
| 7                 | No Pin | No Pin       | No Pin     | +5Vout |
| 8                 | +Vout  | +Vout        | +12Vout    | +Vout  |

### MECHANICAL DIMENSIONS - CHASSIS MOUNT



### MECHANICAL DIMENSIONS - DIN RAIL



| Model Type / Pin# | Single | Match Dual | Unmatch Dual | Triple  |
|-------------------|--------|------------|--------------|---------|
| 1                 | AC LO  | AC LO      | AC LO        | AC LO   |
| 2                 | GND    | GND        | GND          | GND     |
| 3                 | AC HI  | AC HI      | AC HI        | AC HI   |
| 4                 | +Vout  | +Vout      | +12Vout      | +Vout   |
| 5                 | +Vout  | Com        | +5Vout       | +5Vout  |
| 6                 | -Vout  | Com        | +5Vout       | +/- Com |
| 7                 | -Vout  | -Vout      | Com          | +5V Ret |
| 8                 | N/C    | N/C        | Com          | -Vout   |
| 9                 | Ctrl   | Ctrl       | Ctrl         | Ctrl    |

DIN Rail mounting kit available for Chassis-mount modules.  
 - For 30 watt single outputs specify part # M-DRL-30S  
 - For 30 watt dual/single outputs specify part # M-DRL-30T  
 Kit includes mounting plate, DIN Rail cliip and assembly hardware.