

- 5 Watt to 30 Watts Output Power
- Single, Dual and Triple Outputs
- Universal 85VAC to 265VAC Input
- 5VDC to 24VDC Outputs
- 3,000VAC Input to Output Isolation
- Industry-Standard PCB Mount

## ECONOMOD Series



### MODEL SELECTIONS

As Small As 2.17"L x 1.77"W x 0.81"H

| Output Voltage       | Output Amps/Watts | Size, (inches)     | Model Number | Price 1 | Price 25 |
|----------------------|-------------------|--------------------|--------------|---------|----------|
| <b>SINGLE OUTPUT</b> |                   |                    |              |         |          |
| 5 VDC                | 1/5W              | 2.17 x 1.77 x 0.81 | APC-5S       | \$51    | \$41     |
|                      | 2/10W             | 2.56 x 1.77 x 0.81 | ATC-5S       | \$62    | \$51     |
|                      | 3/15W             | 2.91 x 2.13 x 0.87 | ANC-5S       | \$72    | \$62     |
|                      | 6/30W             | 3.50 x 2.50 x 0.98 | ASC-5S       | \$93    | \$83     |
| 12 VDC               | 0.42/5W           | 2.17 x 1.77 x 0.81 | APC-12S      | \$51    | \$41     |
|                      | 0.83/10W          | 2.56 x 1.77 x 0.81 | ATC-12S      | \$62    | \$51     |
|                      | 1.25/15W          | 2.91 x 2.13 x 0.87 | ANC-12S      | \$72    | \$62     |
|                      | 2.5/30W           | 3.50 x 2.50 x 0.98 | ASC-12S      | \$93    | \$83     |
| 15 VDC               | 0.33/5W           | 2.17 x 1.77 x 0.81 | APC-15S      | \$51    | \$41     |
|                      | 0.67/10W          | 2.56 x 1.77 x 0.81 | ATC-15S      | \$62    | \$51     |
|                      | 1/15W             | 2.91 x 2.13 x 0.87 | ANC-15S      | \$72    | \$62     |
|                      | 2/30W             | 3.50 x 2.50 x 0.98 | ASC-15S      | \$93    | \$83     |
| 24 VDC               | 0.20/5W           | 2.17 x 1.77 x 0.81 | APC-24S      | \$51    | \$41     |
|                      | 0.42/10W          | 2.56 x 1.77 x 0.81 | ATC-24S      | \$62    | \$51     |
|                      | 0.63/15W          | 2.91 x 2.13 x 0.87 | ANC-24S      | \$72    | \$62     |
|                      | 1.25/30W          | 3.50 x 2.50 x 0.98 | ASC-24S      | \$93    | \$83     |
| <b>DUAL OUTPUT</b>   |                   |                    |              |         |          |
| +/-5 VDC             | +/-0.5/5W         | 2.17 x 1.77 x 0.81 | APC-5D       | \$57    | \$46     |
|                      | +/-0.8/10W        | 2.56 x 1.77 x 0.81 | ATC-5D       | \$67    | \$57     |
|                      | +/-1.5/15W        | 2.91 x 2.13 x 0.87 | ANC-5D       | \$78    | \$67     |
|                      | +/-3/30W          | 3.50 x 2.50 x 0.98 | ASC-5D       | \$99    | \$88     |
| +/-12 VDC            | +/-0.20/5W        | 2.17 x 1.77 x 0.81 | APC-12D      | \$57    | \$46     |
|                      | +/-0.38/10W       | 2.56 x 1.77 x 0.81 | ATC-12D      | \$67    | \$57     |
|                      | +/-0.65/15W       | 2.91 x 2.13 x 0.87 | ANC-12D      | \$78    | \$67     |
|                      | +/-1.3/30W        | 3.50 x 2.50 x 0.98 | ASC-12D      | \$99    | \$88     |
| +/-15 VDC            | +/-0.16/5W        | 2.17 x 1.77 x 0.81 | APC-15D      | \$57    | \$46     |
|                      | +/-0.30/10W       | 2.56 x 1.77 x 0.81 | ATC-15D      | \$67    | \$57     |
|                      | +/-0.50/15W       | 2.91 x 2.13 x 0.87 | ANC-15D      | \$78    | \$67     |
|                      | +/-1/30W          | 3.50 x 2.50 x 0.98 | ASC-15D      | \$99    | \$88     |
| <b>TRIPLE OUTPUT</b> |                   |                    |              |         |          |
| +5,+/-12 VDC         | 3,0.63/0.63/30W   | 3.50 x 2.50 x 0.98 | ASC-5S12D    | \$120   | \$109    |
| +5,+/-15 VDC         | 3,0.5/0.5/30W     | 3.50 x 2.50 x 0.98 | ASC-5S15D    | \$120   | \$109    |

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

# Ultraminiature **LOW COST** Modular Switching Power Supplies **ECONOMOD Series**

## INPUT SPECIFICATIONS

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

## OUTPUT SPECIFICATIONS

|                          |                               |
|--------------------------|-------------------------------|
| Output Voltage/Current   | See Specific Model            |
| Initial Accuracy         | +/-1%, typ.                   |
| Load Regulation          | +/-3%, typ                    |
| Line Regulation          | +/-3%, typ                    |
| Temperature Coefficient  | +/-0.03%/DegC                 |
| Ripple/Noise(20Mhz BW)   | 50mV Pk-Pk, typ               |
| Overvoltage Protection   | Clamp, 130-150% *             |
| Hold Up Time             | 20mS, typ                     |
| Short Circuit Protection | Continuous, self-recovering*  |
| Current Limit            | 130% typ, Self-Reset Foldback |

\* 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 or implied.

## GENERAL SPECIFICATIONS

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Input-Out Isolation      | 3000VAC                                                                          |
| Operating Frequency      | 140 Khz, fixed                                                                   |
| Efficiency (@ Full Load) | 75 - 80%, typ                                                                    |
| Safety                   | UL / TUV / CE<br>EN60950, IEC950, TUV File # R9839008<br>UL 1950, File # E167432 |

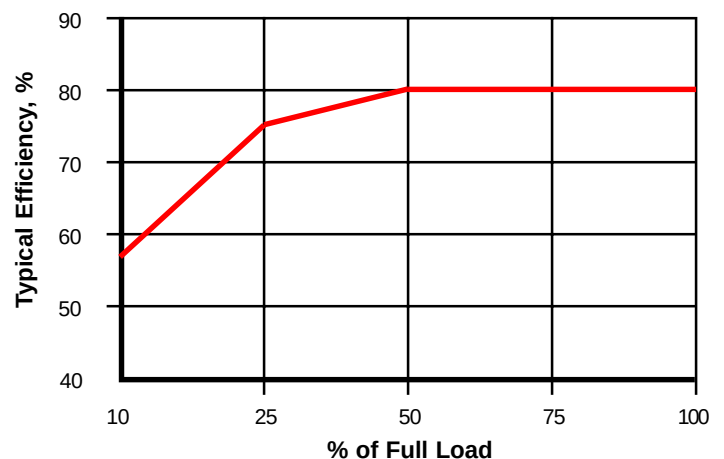
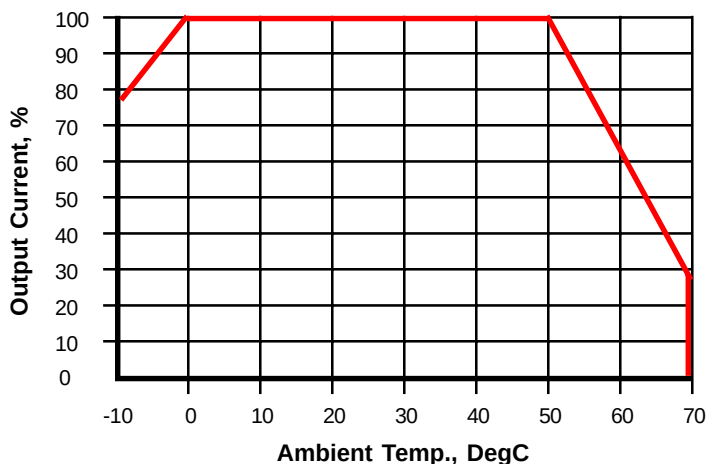
## ENVIRONMENTAL SPECIFICATIONS

|                     |                                         |
|---------------------|-----------------------------------------|
| Oper. Temperature   | 0 to +50 Deg C<br>(Free-air Convection) |
| Relative Humidity   | 0-95%, Non-Condensing                   |
| Storage Temperature | -25 to +71 DegC *                       |
| MTBF                | 100,000 Hrs<br>Mil Std 217, 25C         |

## PHYSICAL SPECIFICATIONS

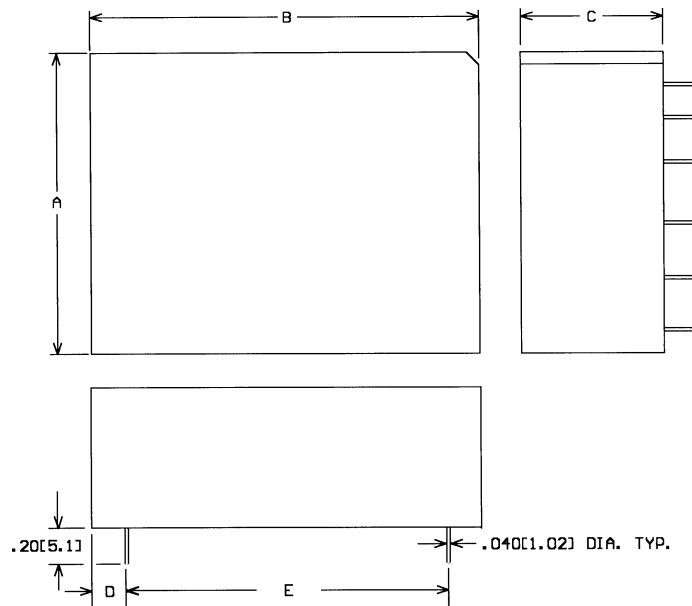
|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| Case Material | Rynite, 94V-0 Rated                                                               |
| Construction  | Encapsulated, Hard Pot                                                            |
| Weight        | 5W Models: 3.8oz<br>10W Models: 4.2oz<br>15 W Models: 5.2oz<br>30 W Models: 6.4oz |

## PERFORMANCE CURVES



*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.*

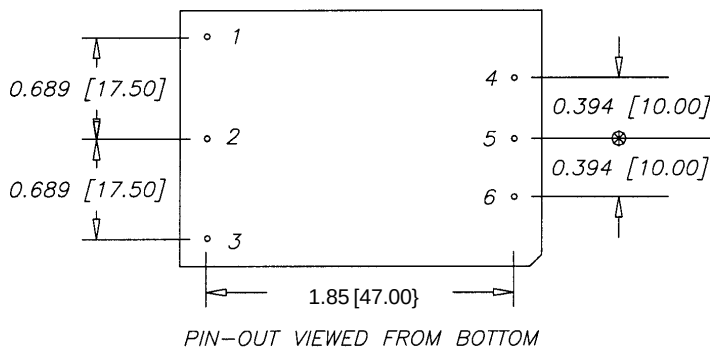
#### MECHANICAL DIMENSIONS



| SERIES         | DIM. A     | DIM. B     | DIM. C     | DIM. D     | DIM. E       |
|----------------|------------|------------|------------|------------|--------------|
| 5W SERIES ALL  | 1.77[45.0] | 2.17[55.0] | 0.81[20.5] | 0.16[4.0]  | 1.85[47.00]  |
| 10W SERIES ALL | 1.77[45.0] | 2.52[64.0] | 0.81[20.5] | 0.16[4.0]  | 2.126[54.00] |
| 15W SERIES ALL | 2.13[54.0] | 2.91[74.0] | 0.87[22.0] | 0.24[6.0]  | 2.441[62.00] |
| 30W SERIES ALL | 2.50[63.5] | 3.50[89.0] | 0.98[25.0] | 0.15[3.81] | 3.2[81.28]   |

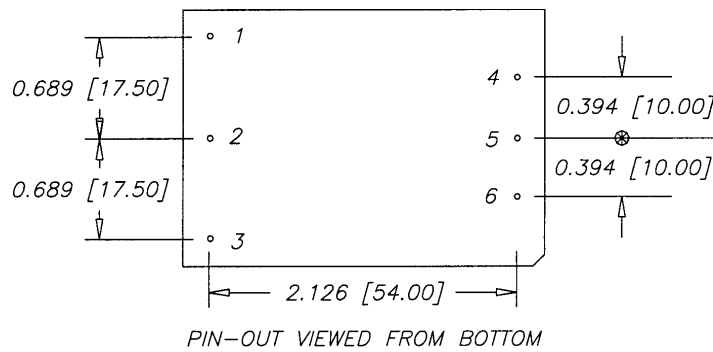
DIMENSIONS ARE IN INCH[MM]  
TOLERANCES: .XX  $\pm$  .02 [0.50]  
.XXX  $\pm$  .01 [0.25]

#### 5 Watt APC Model Pinout



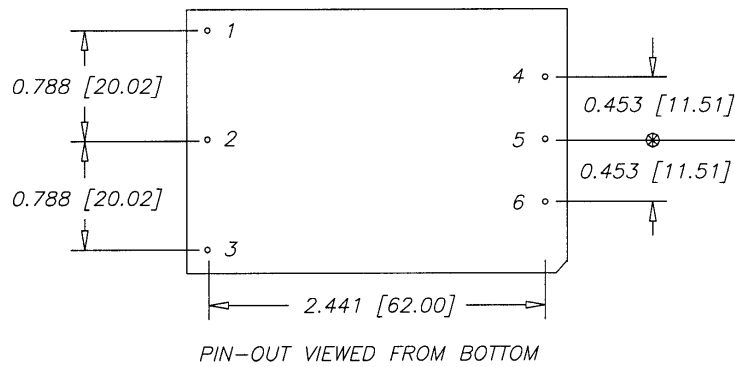
| Output Type/Pin# | 1     | 2     | 3   | 4     | 5      | 6     |
|------------------|-------|-------|-----|-------|--------|-------|
| Single           | AC HI | AC LO | GND | +Vout | No Pin | -Vout |
| Dual             | AC HI | AC LO | GND | +Vout | Com    | -Vout |

### 10 Watt ATC Model Pinout



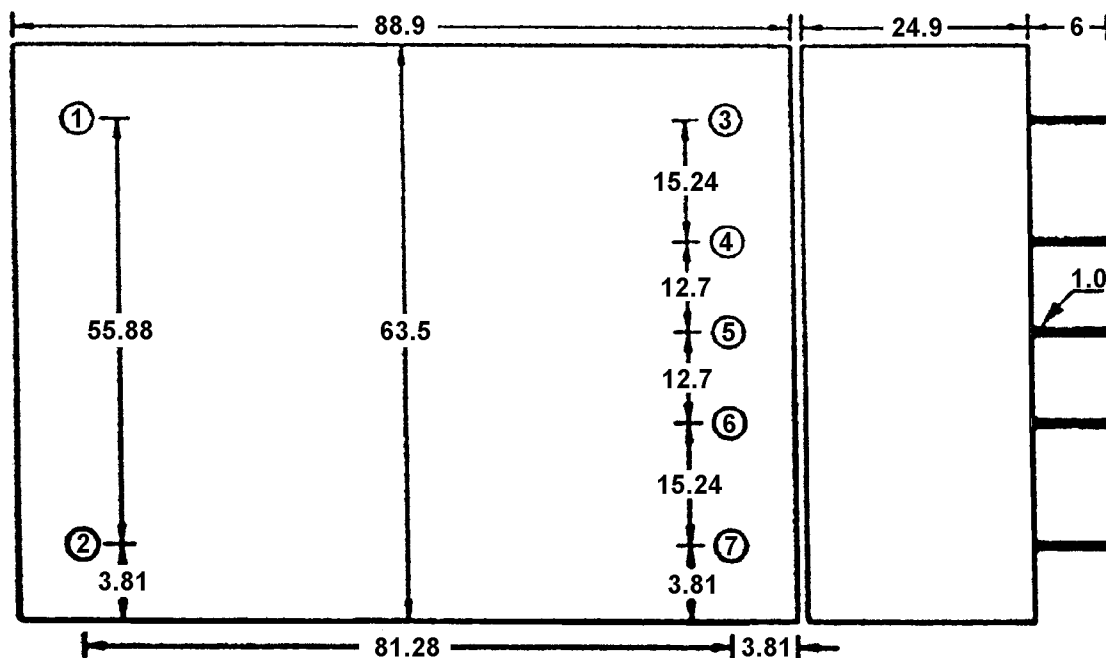
| Output Type/Pin# | 1     | 2     | 3   | 4     | 5      | 6     |
|------------------|-------|-------|-----|-------|--------|-------|
| Single           | AC HI | AC LO | GND | +Vout | No Pin | -Vout |
| Dual             | AC HI | AC LO | GND | +Vout | Com    | -Vout |

### 15 Watt ANC Model Pinout



| Output Type/Pin# | 1     | 2     | 3   | 4     | 5      | 6     |
|------------------|-------|-------|-----|-------|--------|-------|
| Single           | AC HI | AC LO | GND | +Vout | No Pin | -Vout |
| Dual             | AC HI | AC LO | GND | +Vout | Com    | -Vout |

### 30 Watt ASC Model Pinout and Dimension



PIN-OUT VIEWED FROM TOP.

| Output Type/Pin# | 1     | 2     | 3     | 4      | 5     | 6      | 7      |
|------------------|-------|-------|-------|--------|-------|--------|--------|
| Single           | AC LO | AC HI | +Vout | No Pin | -Vout | No Pin | No Pin |
| Dual             | AC LO | AC HI | +Vout | No Pin | Com   | No Pin | -Vout  |
| Triple           | AC LO | AC HI | +Vout | +5V    | Com   | 5Vrtn  | -Vout  |