Astrodyne TDI
Now you have power.

## Enclosed 150 Watt Switching Power Supplies

# US150 series



Unit measures 4.4"W x 7.96"L x 2"H

- Universal 85-265VAC Input
- High Efficiency
- Regulated Outputs
- 3000V Isolation
- Built in EMI Filter
- Low Cost Solution

| Model Number | Output Voltage | Output Amps (max) |
|---|---|---|
| **SINGLE OUTPUT** | | |
| US150-5 | 5 VDC | 30 |
| US150-12 | 12 VDC | 12.5 |
| US150-15 | 15 VDC | 10 |
| US150-24 | 24 VDC | 6.5 |

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## INPUT SPECIFICATIONS

| | |
|---|---|
| Input Voltage Range | Universal 85-265 VAC |
| Frequency Range | 47-63 Hz |
| Inrush Current, typ: | 35A * |

## OUTPUT SPECIFICATIONS

| | |
|---|---|
| Voltage and Current | See Selection Chart |
| Line/Load Regulation | |
| (10% to 100% Load) | +/- 0.3%, typ |
| Voltage Tolerance | 5V: +/-5%, typ |
| | All Others: +/-1% |
| DC Voltage Adjust (typ) | +/-10%, typ |
| Temperature Coefficient | +/-0.03%/°C |
| Ripple/Noise | 5V: 150mV, typ |
| | 12V, 15V: 180mV, typ |
| | 24V: 240mV, typ |
| Over Voltage Protection | Clamp, 115-135%, typ * |
| Short Circuit Protection | Continuous, self-recovering |
| Setup, Rise, Hold Up Time | 100mS, 50mS, 20mS |

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Isolation | I/P-O/P: 3000VAC |
| | I/P-Ground: 1500VAC |
| Efficiency | 82%, typ |
| Switching Frequency | 25Khz, (fixed, typical) |

## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| Oper. Temperature | -10 to +60°C(See Derate) |
| Storage Temperature | -20 to +85°C * |
| Relative Humidity | 20% to +90%, non-cond * |
| EMC | CISPR22 (EN55022) |
| | IEC1000-4-2,3,4,5 |
| MTBF | 860 kHrs |
| | Mil Std 217, 25°C |

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Size | 4.4” x 7.96” x 2.0” |
| Construction | Enclosed, Perf Cover |
| Weight | 1.76 lb, (800g) |

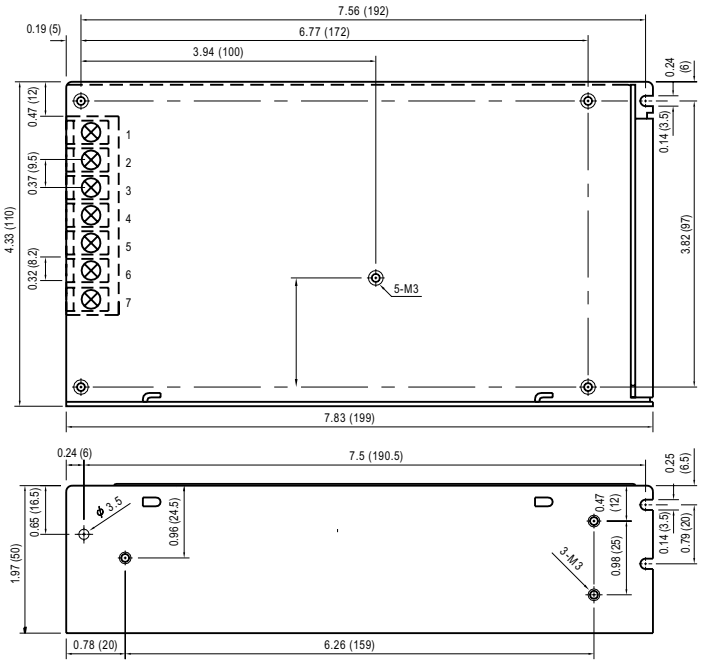
*All specifications are typical at nominal input, full load, and 25°C unless otherwise noted*

* 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 warranteed nor implied.

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## MECHANICAL DIMENSIONS




Dimensions are Inches (mm)

| Pin # | Outputs |
|---|---|
| 1 | AC Line |
| 2 | AC Neutral |
| 3 | FG |
| 4 | - Output |
| 5 | - Output |
| 6 | + Output |
| 7 | + Output |

## OUTPUT DERATING CURVE

