

3"W x 5.5"L x 1.4"H

- 150 Watts Output Power
- Single and Dual Outputs
- Universal 90-264VAC Input
- 5VDC to 48VDC Outputs
- 4000VAC Input to Output Isolation
- Active Power Factor Correction



| Model Number | Output Voltage | Output Amps (max) | Line Regulation | Ripple & Noise |
|--------------|----------------|-------------------|-----------------|----------------|
|--------------|----------------|-------------------|-----------------|----------------|

SINGLE OUTPUT

| | | | | |
|-------------|--------|------|-------|-------------|
| PMMK150S-5 | 5 VDC | 30 | ±0.5% | 100mV pk-pk |
| PMMK150S-12 | 12 VDC | 12.5 | ±0.5% | 100mV pk-pk |
| PMMK150S-15 | 15 VDC | 10 | ±0.5% | 100mV pk-pk |
| PMMK150S-24 | 24 VDC | 6.3 | ±0.5% | 100mV pk-pk |
| PMMK150S-48 | 48 VDC | 3.2 | ±0.5% | 100mV pk-pk |

DUAL OUTPUT

| | | | | |
|------------|-----------|--------|---------|-----------------|
| PMMK150D-A | 5/12 VDC | 15/7 | ±0.5/1% | 50/100mV pk-pk |
| PMMK150D-B | 5/24 VDC | 15/3.5 | ±0.5/2% | 50/200mV pk-pk |
| PMMK150D-C | 12/24 VDC | 7/3.5 | ±1/2% | 100/200mV pk-pk |
| PMMK150D-D | 12/48 VDC | 7/1.5 | ±1/4% | 100/400mV pk-pk |



Medical Grade 150 Watt Open Frame with PFC

PMMK150 series

INPUT SPECIFICATIONS

| | |
|-------------------------|----------------|
| Input Voltage Range | 90-264 VAC |
| Frequency Range | 47-63 Hz |
| Power Factor Correction | 0.96 to 0.98 |
| Inrush Current, typ: | 30A @ 115VAC |
| | 60A @ 230VAC * |

OUTPUT SPECIFICATIONS

| | |
|----------------------------------|---|
| Voltage and Current (Note 6) | See Selection Chart |
| Line Regulation (Note 8) | See Selection Chart |
| Load Regulation (10%-FL, Note 7) | |
| Singles: | ± 0.5%, typ |
| Duals: | ±3/5%, typ |
| Preset Accuracy (Note 9) | ±1%, typ |
| DC Voltage Adjust (typ) | ±6%, typ |
| Temperature Coefficient | ±0.05%/°C |
| Ripple/Noise (Notes 1, 3, 10) | See Selection Chart |
| Over Voltage Protection | Latching, Auto Recover after fault condition is removed * |
| Short Circuit Protection | Latching, Auto Recover after fault condition is removed * |
| Hold Up Time | 20mS, typ (Nom I/P, FL) |

GENERAL SPECIFICATIONS

| | |
|---------------------|-------------------------|
| Isolation (Note 4) | I/P-O/P: 4000VAC |
| | I/P-Ground: 2000VAC |
| | O/P-Ground: 500 VAC |
| Efficiency | 75%, min. |
| Switching Frequency | 67Khz, (fixed, typical) |
| Safety | UL,TUV, CB, CE |

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 warranted nor implied.

ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------|------------------------|
| Oper. Temperature | -10 to +70°C |
| | (See Derate Curve) |
| Storage Temperature | -25 to +85°C * |
| Relative Humidity | 0% to +95%, non-cond * |
| EMC | EN55011 Class B |
| MTBF | 270,000 Hrs |
| | Mil Std 217, 25°C |

PHYSICAL SPECIFICATIONS

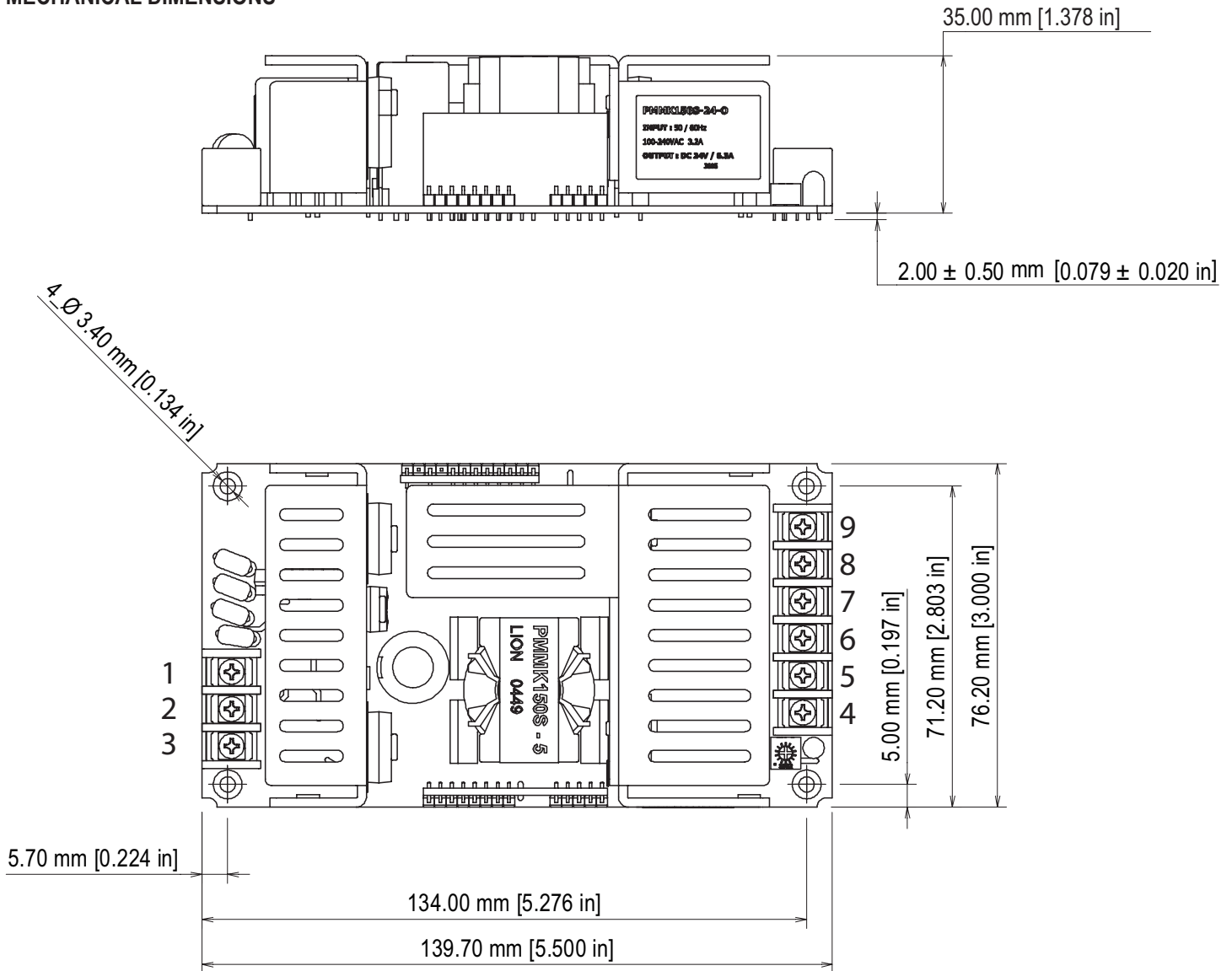
| | |
|--------------|------------------|
| Size | 3" x 5.5" x 1.4" |
| Construction | Open Frame |
| Weight | 1.0 lb, (454g) |

NOTES

1. All measurements should be made directly at the terminals of the power supply
2. All specifications typical @ 25°C, unless otherwise noted, at nominal line and load.
3. Ripple and noise dependent upon output voltage as specified per particular model.
4. Isolation for up to 1 minute duration.
5. Specified for free air convection cooling.
6. Minimum load is not required for proper operation.
7. Load Regulation is measured by change ±40% of measured output load from 60% full load, with the other output set to 60% full load.
8. Line Regulation measured from 90-264VAC. 100VAC minimum required for full load start.
9. Preset Accuracy measured at nominal load, 120VAC input.
10. O/P Noise measured directly at the pins/terminals at nominal load, 0.1uF bypass and 47uF electrolytic, pk-pk @ 20MHz bandwidth.

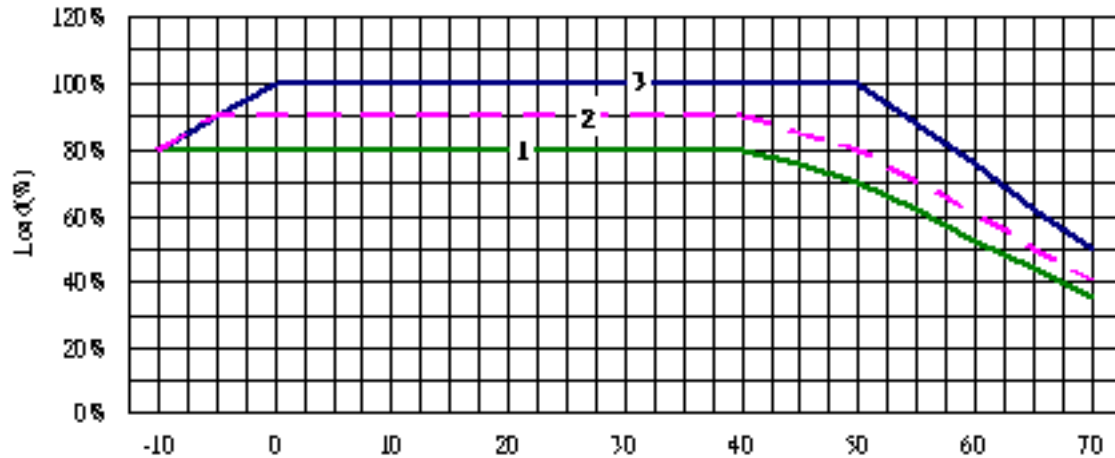
Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

MECHANICAL DIMENSIONS



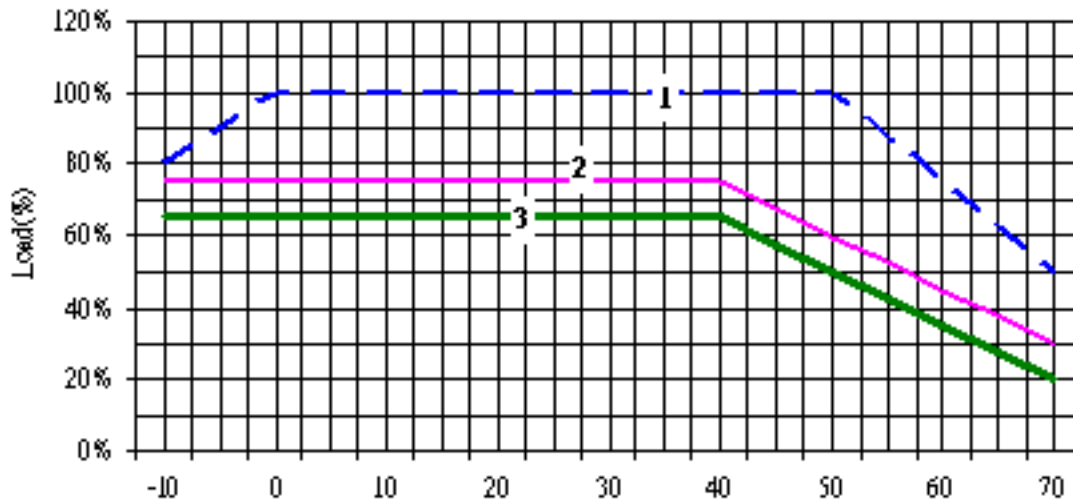
| Pin # | SINGLE | DUAL |
|-------|--------|--------|
| 1 | GND | GND |
| 2 | ACN | ACN |
| 3 | ACL | ACL |
| 4 | V1 | V1 |
| 5 | V1 | V1 |
| 6 | Common | Common |
| 7 | Common | Common |
| 8 | Common | Common |
| 9 | N/C | V2 |

OUTPUT DERATING CURVE - SINGLE OUTPUT



1. 5V convection
2. 12、15、24、48V convection
3. Forced air cooling 10CFM

OUTPUT DERATING CURVE - DUAL OUTPUT



1. Forced air colling 10 CFM
2. Free air convection
 - Open Frame, U-Channel
3. Free air convection
 - Enclosed