



Medical Grade 225 Watt DIN Rail Mount Power Supply with PFC **PMMK225D** series



3.86"W x 7"L x 1.57"H

- 225 Watts Output Power
- Single Outputs
- Universal 90-264VAC Input
- 5VDC to 48VDC Outputs
- 5656VDC Input to Output Isolation
- Active Power Factor Correction



Model Number Output Voltage Output Amps (max) Ripple & Noise max. (Note 1 & 4) Efficiency

SINGLE OUTPUT

| | | | | |
|--------------|--------|------|-------------|-----|
| PMMK225S-5D | 5 VDC | 40 | 100mV pk-pk | 75% |
| PMMK225S-12D | 12 VDC | 18.8 | 120mV pk-pk | 82% |
| PMMK225S-15D | 15 VDC | 15 | 150mV pk-pk | 83% |
| PMMK225S-24D | 24 VDC | 9.4 | 240mV pk-pk | 84% |
| PMMK225S-36D | 36 VDC | 6.25 | 360mV pk-pk | 84% |
| PMMK225S-48D | 48 VDC | 4.7 | 480mV pk-pk | 84% |

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**ASTRODYNE USA: 1-800-823-8082
ASTRODYNE PACIFIC: 886-2-26983458**



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INPUT SPECIFICATIONS

| | |
|-------------------------|------------------------------|
| Input Voltage Range | 90-264 VAC (100-240VAC Nom.) |
| Frequency Range | 47-63 Hz |
| Power Factor Correction | 0.95, min. Nom I/P, FL |
| Inrush Current, typ: | 30A @ 115VAC Cold Start, FL* |
| | 60A @ 230VAC Cold Start, FL* |
| Input Current | 3.8 Amps max., 90V I/P |
| | 1.3 Amps max., 264V I/P |
| Leakage Current | <0.2mA, 240Vin, 50Hz |

OUTPUT SPECIFICATIONS

| | |
|-----------------------------|---|
| Voltage and Current | See Selection Chart |
| Line Regulation (LL-HL) | ±1%, max. |
| Load Regulation 10%-FL | ±1%, max. |
| Preset Accuracy (Note 3) | ±1%, typ (2% 5 Vout) |
| Ripple/Noise (Notes 1, & 4) | See Selection Chart |
| Over Voltage Protection | 130% max. Auto Recovery * |
| Over Current Protection | 150% max. Auto Recovery * |
| Short Circuit Protection | Auto Recover after fault condition is removed * |
| Turn On Delay Time | <4S |
| Rise Time | <20mS, typ (Nom I/P, FL) |
| Hold Up Time | 20mS, typ (Nom I/P, FL) |
| Over-Shoot/Under Shoot | <10% of Nominal Output |
| Remote Sense | Compensates for up to 0.5V drop |
| Remote Shutdown | Open Collector, Logic "1" = ON "0" = Off. No Termination necessary to maintain constant "On" operation |

GENERAL SPECIFICATIONS

| | |
|--------------------------|---|
| Isolation (Note 2) | I/P-O/P: 5656VDC I/P-Ground: 2121VDC O/P-Ground: 707VDC |
| Insulation Resistance | ≥20MΩ |
| Efficiency (FL, Nom I/P) | 70%, min. |
| Safety | UL/cUL60601-1, EN60601-1 (TUV) EN60601-1-2:2001 (CE), IEC60601-1 (CB) |

* 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 | -20 to +70°C (See Derate Curve) |
| Storage Temperature | -25 to +85°C * |
| Relative Humidity | 10% to +95%, * |
| | Storage: 5-95% |
| EMS | |
| Harmonics | Class D, 61000-3-2 |
| Fluctuations | 61000-3-3 |
| ESD | 61000-4-2 |
| RS | 61000-4-3 |
| EFT | 61000-4-4 |
| Surge | 61000-4-5 |
| CS | 61000-4-6 |
| DIPS | 61000-4-11 |
| EMI | EN55022 Class B |
| MTBF Mil Std 217F, 25°C | 100,000 Hrs, min. |
| Vibration | 4G Peak, 50-500Hz, 3 Axes |
| Drop Test | 70 CM |

PHYSICAL SPECIFICATIONS

| | |
|--------------|-----------------------|
| Size | 3.86"W x 7"L x 1.57"H |
| Construction | Enclosed |
| Weight | 1.55 lb, (703g) |

NOTES

1. All measurements should be made directly at the terminals of the power supply
2. Isolation for up to 1 minute duration.
3. Preset Accuracy measured at nominal load, 120VAC input.
4. O/P Noise measured directly at the pins/terminals at nominal load, 0.1uF ceramic bypass and 47uF electrolytic, pk-pk @ 20MHz bandwidth.

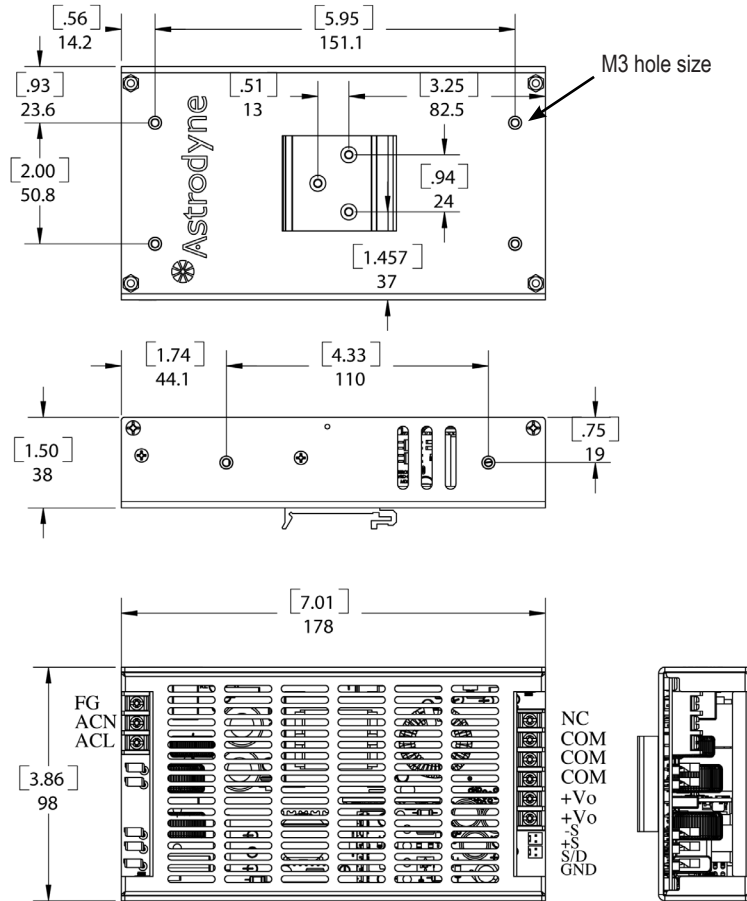
Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

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

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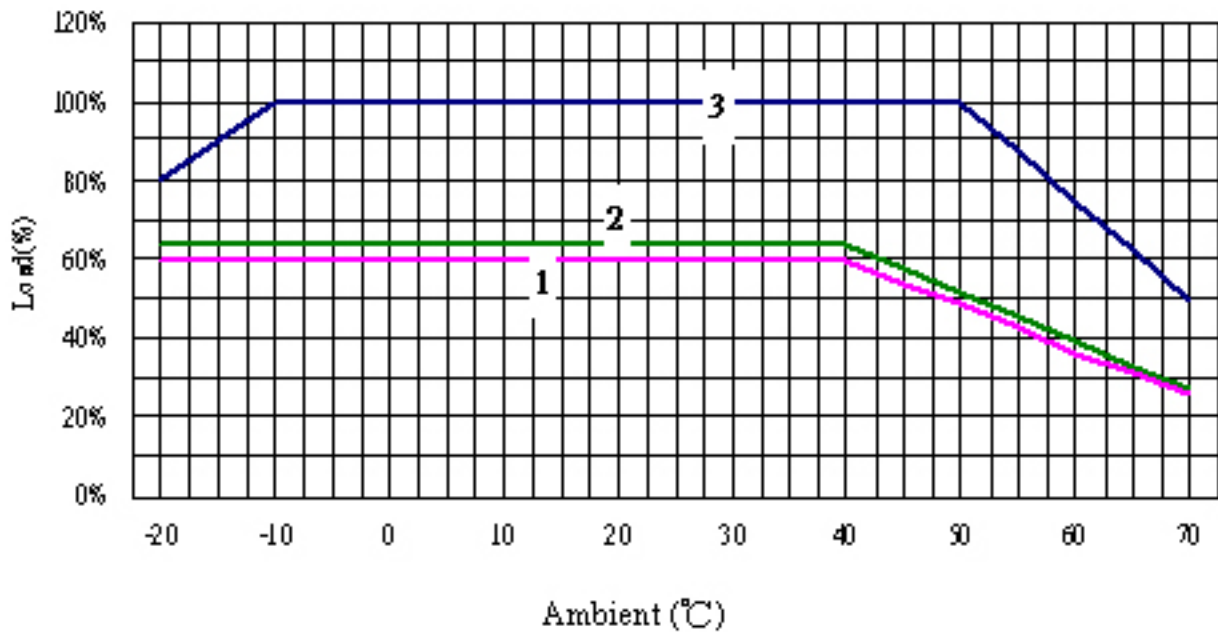
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MECHANICAL DIMENSIONS



ASTRODYNE PACIFIC CORP

OUTPUT DERATING CURVE



1. 5V convection
2. 12、15、24、36、48V convection
3. Forced air cooling 18CFM