



4"W x 7.01"L x 2.08"H

- 300 Watts, Enclosed Type
- Single Outputs of 12VDC to 48VDC
- Universal 90-264VAC Input
- 5656VDC Input to Output Isolation
- Active Power Factor Correction
- Compact High Efficiency Design



Model Number	Output VDC	Output Amps (max.)	Efficiency 110VAC/230VAC
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SINGLE OUTPUT

PMMX300S-12E	12	25	82%/85% typ.
PMMX300S-15E	15	20	82%/85% typ.
PMMX300S-18E	18	16.7	82%/86% typ.
PMMX300S-24E	24	12.5	83%/86% typ.
PMMX300S-28E	28	10.7	83%/86% typ.
PMMX300S-36E	36	8.33	83%/87% typ.
PMMX300S-48E	48	6.25	84%/87% typ.

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

Medical Grade 300 Watt Power Supply with PFC

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (100-240VAC Nom.)
Frequency Range	47-63 Hz (50-60Hz nom.)
Power Factor Correction FL	0.95, min.
Inrush I, Cold Start, FL 25°C	30A @ 115VAC, 60A @ 230VAC FL *
Input Current (90Vin/264Vin)	4.5A max./1.5A max.
Leakage Current	<0.3mA, 240Vin, 50Hz

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart Page 1
Line/Load Load	±0.5% nom., ±1%, max.
Ripple/Noise (Note 1)	1% pk-pk max.
Over Voltage Protection FL	130% max. Auto Recovery *
Over Current Protection	110-130% max. I/O, Auto Recovery *
Short Circuit Protection	Auto Recovery after fault is removed *
Turn On Delay Time Max.	<2S from AC ON
Rise Time	<70mS, typ
Hold Up Time	18mS, typ
Over-Shoot/Under Shoot	<10% of Nominal Output
Remote Sense	Compensates for up to 0.5V drop

CONTROL SPECIFICATIONS

Over Temp Protection	Output Shutdown, Auto-Recovery After Cooled *
Remote ON/OFF	Open Collector, Logic "1"=On, "0"=Off

PHYSICAL SPECIFICATIONS

Size L x W x H (Inches/mm)	7.01 x 4 x 2.08 / 178 x 101.6 x 52.8
Weight	930g typ.

* 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.

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20 to +60°C (See Derate Curve)
Storage Temperature	--25 to +85°C *
Humidity (non-condensing)	Operating: 10% to +90%, Storage: 5-95% *

GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 5656VDC 60S I/P-Ground: 2121VDC 60S O/P-Ground: 707VDC 60S
Insulation Resistance	≥20MΩ, 500V, 1S, I/P to O/P
Efficiency	See Selection Chart
Safety	UL/cUL: ANSI/AAMI ES60601-1 3rd ed. CSA C22.2 No. 60601-1 3rd ed. UL-EU: EN60601-1 3rd ed. CB: IEC60601-1 3rd ed. CE: EN60601-1-2
Grounding Test (by system test only)	AC 30A, 2S I/P GND to SELV O/P Resistance ≤0.1
EMC Standard	EN60601-1-2
Harmonics Class A	61000-3-2
Fluctuations	61000-3-3
ESD	Contact 6KV, Air 8KV 61000-4-2
RS	FR: 80MHz-2.5GHz Field Strength: 3V/M 61000-4-3
EFT	2KV on AC Power Line 61000-4-4
Surge	1KV (L-L) & 2KV (L-PE) 61000-4-5
CS	3V (EMF) 61000-4-6
MS	50Hz/3A/m 61000-4-8
DIPS	61000-4-11
EMI	EN55011 Class B
MTBF	120,000 Hrs, min. Mil Std 217F, 25°C; Notice 1, appendix A; Parts Count

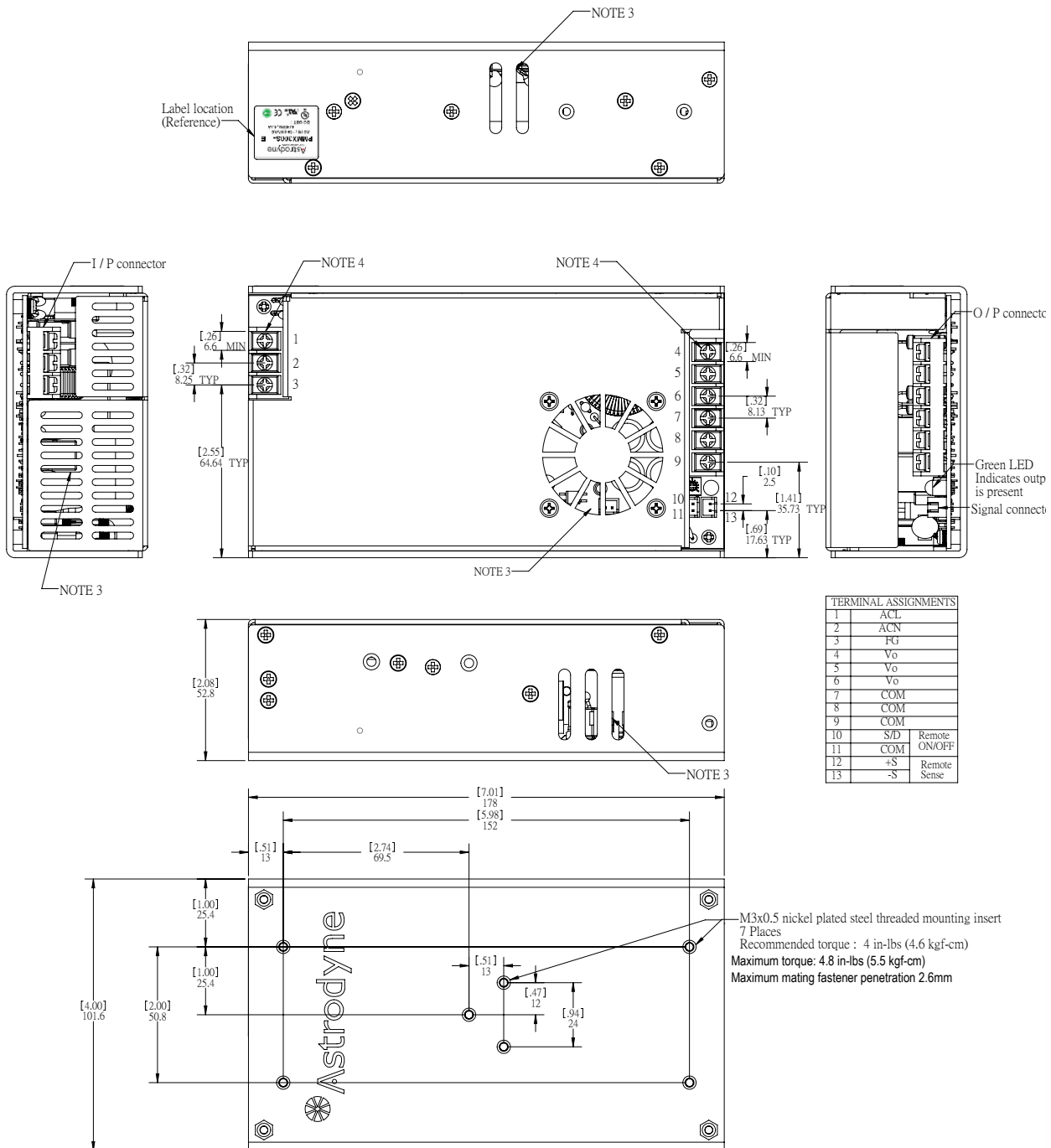
NOTES

1. O/P Noise measured directly at the pins/terminals with 0.1uF ceramic parallel with 47uf Aluminum Capacitors, pk-pk @ 20MHz bandwidth

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

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MECHANICAL DIMENSIONS



Connector P/N info. for reference.	
I/P :	YK331-3P ANYTEK
O/P :	YK331-6P ANYTEK
SIGNAL Connector :	8822 TKP MATING Connector : 8821 TKP

- NOTES :
- All dimension in mm (inch) .
 - Length & Width & Height _tolerance : ± 0.3 mm (0.012 in)
 - FAN AIR INTAKE OPENINGS & VENTILATION / SLOT AREA - DO NOT OBSTRUCT
 - I/P and O/P connector use M3 SEMS SCREWS . Recommended torque 8.8 In-Lbs (10 kgf-cm) .



OUTPUT DERATING CURVE

