



- Universal 85-265VAC Input
- Compact Footprint
- High Efficiency
- Regulated Outputs
- 4000V Isolation
- Built in EMI Filter

MMK150S Series



3.5"W x 6"L x 1.75"H



MODEL SELECTIONS

Model Number	Output Voltage	Output Amps (MAX)
SINGLE OUTPUT		
MMK150S-5	5 VDC	30
MMK150S-12	12 VDC	12.5
MMK150S-15	15 VDC	10
MMK150S-24	24 VDC	6

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Medically Approved Enclosed Switching Power Supplies 150 Watt

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

INPUT SPECIFICATIONS

Input Voltage Range	88-132/176-264 VAC
Auto Voltage Select	20A @ 100VAC *
Frequency Range	47-63 Hz
Inrush Current, typ:	40A @ 200VAC *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line/Load Regulation (10%-FL)	+/- 0.5%, typ
Voltage Tolerance	+/-1%, typ
DC Voltage Adjust (typ)	+/-6%, typ
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise	100mV, typ
Over Voltage Protection	Latching, Re-power *
Short Circuit Protection	Indefinite
Hold Up Time	20mS, typ (Nom I/P, FL)

GENERAL SPECIFICATIONS

Input-Out Isolation	I/P-O/P: 4000VAC I/P-Ground: 1500VAC O/P-Ground: 500 VAC
Efficiency	78%, typ
Switching Frequency	100Khz, (fixed, typical)
Safety	EN60950, IEC950 UL1950, EN60601-1

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60C (See Derate Curve)
Storage Temperature	-25 to +85C *
Relative Humidity	0% to +95%, non-cond *
EMC (Designed to Meet)	CISPR22 (EN55022) IEC1000-4-2,3,4,5
MTBF	270,000 Hrs Mil Std 217, 25C

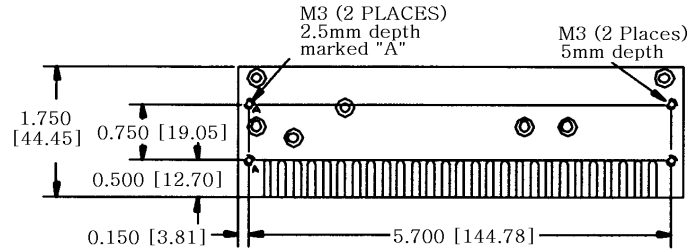
PHYSICAL SPECIFICATIONS

Size	6" x 3.5" x 1.75"
Construction	Enclosed
Weight	1.37 lb, (630g)

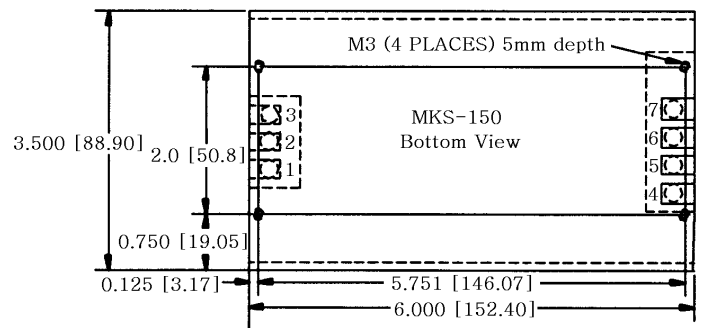
* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

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



DIMENSIONS ARE IN INCHES [mm]
TOLERANCE .XXX +/- .02 [508]



Pin # Outputs

1	GND
2	ACL
3	ACN
4	+ Output
5	+ Output
6	- Output
7	- Output

OUTPUT DERATING CURVE

(Forced air cooling direction: Straight down from top of unit)

- 1 — 22CFM Forced Air - All Outputs (Recommended)
- 2 — 12/15/24VDC Outputs, Convection Cooled
- 3 — 5VDC Output, Convection Cooled

