

MMK150S series



3.5"W x 6"L x 1.75"H

■ 90-264VAC Auto Ranging Input



- Compact Footprint
- High Efficiency
- Regulated Outputs
- 5656VDC Isolation
- Built in EMI Filter









Model Number	Output Voltage	Output Amps (max)	Ripple/Noise pp,typ
MMK150S-5	5 VDC	30	100mv
MMK150S-12	12 VDC	12.5	100mv
MMK150S-15	15 VDC	10	100mv
MMK150S-24	24 VDC	6.25	100mv

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



MMK150S series

INPUT SPECIFICATIONS

Input Voltage Range	90-132/176-264 VAC
	100-120 / 200-240VAC Nominal
Frequency Range	47-63 Hz
Inrush Current, typ:	20A @ 100VAC *
	40A @ 200VAC *
Leakage Current	<0.3mA @ 264VAC, 50Hz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +60°C
	(See Derate Curve)
Storage Temperature	-25 to +85°C *
Relative Humidity	10% to 90%, non-cond *
EMI (Designed to Meet)	EN55011, Class B
MTBF	100,000 Hrs
	Mil Std 217, 25°C

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line/Load Regulation (NL-FL)	± 0.5%, typ
Voltage Tolerance	± 1%, typ
DC Voltage Adjust (typ)	± 6%, typ
Temperature Coefficient	± 0.03%/°C
Ripple/Noise	100mV, typ
Over Voltage Protection	130% max. Auto recovery *
Over Current Protection	160% max., Auto-recovery *
Short Circuit Protection	Auto-recovery
Hold Up Time	20mS, typ (Nom I/P, FL)
Turn On Time	≤ 1.5 sec, typ
Rise Time	≤ 250mS, typ
Over/Under Shoot	< 10% of FS

PHYSICAL SPECIFICATIONS

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

GENERAL SPECIFICATIONS

Isolation		I/P-O/P: 5656VDC
		I/P-Ground: 2121VDC
		O/P-Ground: 707VDC
Efficiency		77~80%, typ
Switching	Frequency	100Khz, (fixed, typical)
Safety	UL/cUL:	ANSI/AAMI ES60601-1 3rd ed.
		CSA C22.2 No.60601-1 3rd ed.
	UL-EU:	EN60601-1 3rd ed.
	CB:	IEC 60601-1 3rd ed.
CE:		EN60601-1-2

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

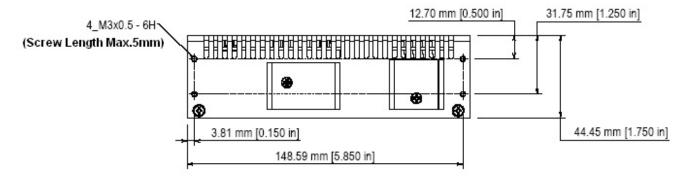
ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458

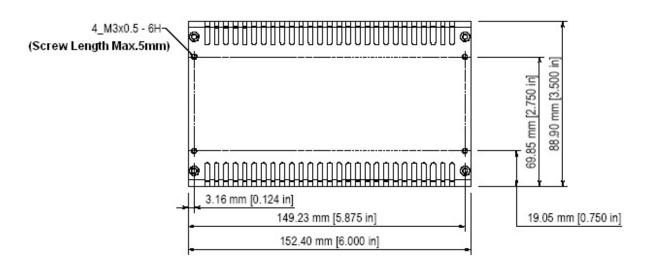
^{*} These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.

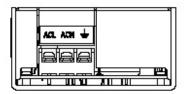


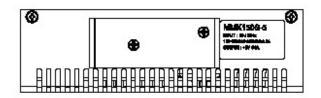
MMK150S series

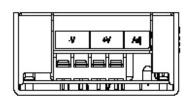
MECHANICAL DIMENSIONS











PLEASE NOTE:

To improve specifications and safety isolation, connection designations may have changed from prior revisions. Please verify connections per product labels on input and output connections prior to applying power to the unit

Note: For our M3 x 0.5 aluminum threaded holes:

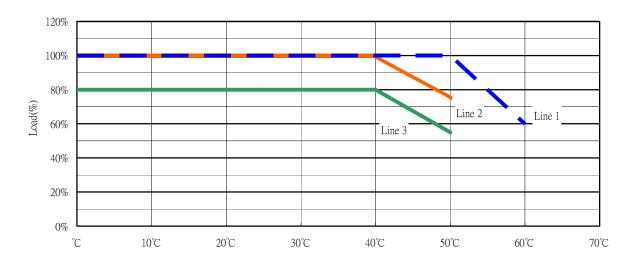
Recommended torque: 2.5 in-lbs, 3 in-lbs maximum (2.9 kgf-cm/3.5 kgf-cm max)

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



MMK150S series

OUTPUT DERATING CURVE



1. Line 1: Force air cooling.

2. Line 2: 12V,15V & 24V convection cooling.

3. Line 3:5V convection cooling.