



Compact 40 Watt Enclosed Switching Power Supplies

MK40S series



2.5"W x 4.75"L x 1.5"H

- Universal 90-264VAC Input
- Compact Footprint
- High Efficiency
- Regulated Outputs
- 4242VDC Isolation
- Built in EMI Filter



CB

CE

Model Number	Output Voltage	Output Amps (max)	Ripple/Noise pp,typ
MK40S-5	5 VDC	8	50mv
MK40S-12	12 VDC	3.5	120mv
MK40S-15	15 VDC	2.8	150mv
MK40S-24	24 VDC	1.8	240mv



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INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Frequency Range	47-63 Hz
Inrush Current, typ:	20A @ 115VAC Input *
	40A @ 230VAC Input *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	5V: $\pm 2\%$ of FS, typ
(0% to 100% Load)	All Others: $\pm 0.5\%$, typ
Line Regulation	± 0.5 , typ
Preset Accuracy	1%, typ
DC Voltage Adjust (typ)	$\pm 6\%$ of FS
Temperature Coefficient	$\pm 0.03\%/^{\circ}\text{C}$
Ripple/Noise	See Selection Chart
Over Voltage Protection	Clamp *
Short Circuit Protection	Auto-recovery
Hold Up Time	16mS, typ (Nom I/P, FL)
Turn On Time	≤ 1.0 sec, typ
Rise Time	≤ 20 msec, typ
Over/Under Shoot	$< 10\%$ of FS

GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 4242VDC
	I/P-Ground: 3535VDC
	O/P-Ground: 1414VDC
Efficiency	80%, typ 5V:74%
Safety UL/cUL:	UL60950-1 2nd ed./
	C22.2 60950-1 2nd ed.
UL-EU:	EN60950-1 2nd ed.
CB:	IEC60950-1 2nd ed.
CE:	EN60601-1-2

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to $+60^{\circ}\text{C}$ (See Derate)
Over Temp Protection	Latching, recoverable after
	cooling and re-power
Storage Temperature	-25 to $+85^{\circ}\text{C}$ *
Relative Humidity	10% to $+95\%$, non-cond *
EMI (Designed to Meet)	EN55011, Class B
MTBF	100 kHrs
	Mil Std 217, 25°C

PHYSICAL SPECIFICATIONS

Size	4.75" x 2.5" x 1.5"
Construction	Enclosed
Weight	0.6 lb, (272g)

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

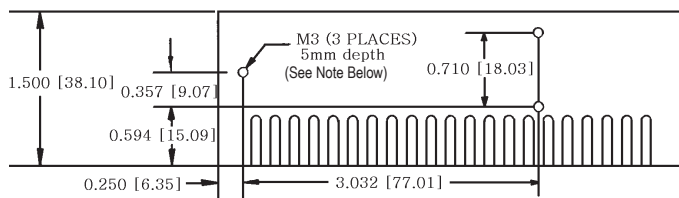
* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

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.

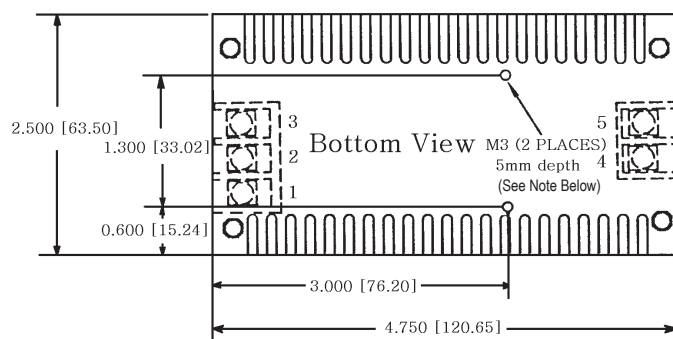
WWW.ASTRODYNE.COM

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

MECHANICAL DIMENSIONS



DIMENSIONS ARE IN INCHES (mm)
TOLERANCES .XXX +/- .010 (.254)



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)

Pin #	Outputs
1	ACL
2	ACN
3	GND
4	+ Output
5	- Output

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

OUTPUT DERATING CURVE

