

- Universal 85-265VAC Input
- Compact Footprint
- High Efficiency
- Regulated Outputs
- 3000V Isolation
- Built in EMI Filter

MKS Series



Pending

MODEL SELECTIONS

Model Number	Output Voltage	Output Amps (MAX)	Price 1
SINGLE OUTPUT 40 WATT			
MKS40-5	5 VDC	8	\$38
MKS40-12	12 VDC	3.5	\$38
MKS40-15	15 VDC	2.8	\$38
MKS40-24	24 VDC	1.8	\$38
SINGLE OUTPUT 75 WATT			
MKS75-12	12 VDC	6.25	\$46
MKS75-15	15 VDC	5	\$46
MKS75-24	24 VDC	3.125	\$46
SINGLE OUTPUT 150 WATT			
MKS150-5	5 VDC	30	\$69
MKS150-12	12 VDC	12.5	\$69
MKS150-15	15 VDC	10	\$69
MKS150-24	24 VDC	6.5	\$69
SINGLE OUTPUT 300 WATT			
MKS320-5	5 VDC	50	\$156
MKS320-12	12 VDC	25	\$156
MKS320-15	15 VDC	20	\$156
MKS320-24	24 VDC	12.5	\$156

Contact
Factory
for
High Volume
Pricing

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

INPUT SPECIFICATIONS

Input Voltage Range	85-265 VAC
Frequency Range	47-440 Hz
Inrush Current, typ:	20A @ 115VAC Input *
	40A @ 230VAC Input *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (0% to 100% Load)	5V: +/- 1% of FS, typ All Others: +/- 0.5%, typ
Line Regulation	+/- 0.5, typ
Preset Accuracy	1%, typ
DC Voltage Adjust (typ)	+/-6% of FS
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise	100mV Pk-Pk max, typ
Over Voltage Protection	Clamp*
Short Circuit Protection	Indefinite
Hold Up Time	30mS, typ (Nom I/P, FL)

GENERAL SPECIFICATIONS

Input-Out Isolation	I/P-O/P: 3000VAC I/P-Ground: 2500VAC O/P-Ground 1000VAC
Efficiency	82%, typ 5V:76%
Switching Frequency	100Khz, (fixed, typical)
Safety Approvals (PENDING)	UL / TUV / CE EN60950, IEC950 UL1950

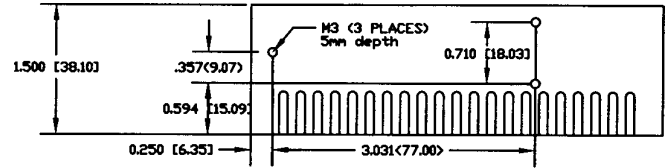
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60 DegC(See Derate)
Over Temp Protection	Latching, recoverable after cooling and re-power
Storage Temperature	-25 to +71 DegC *
Relative Humidity	0% to +95%, non-cond *
EMC (Designed to Meet)	CISPR22 (EN55022) IEC801-2,3,4
MTBF	85.9 kHrs Mil Std 217, 25C

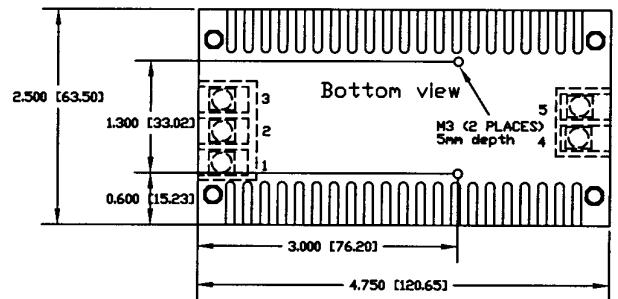
PHYSICAL SPECIFICATIONS

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

MECHANICAL DIMENSIONS

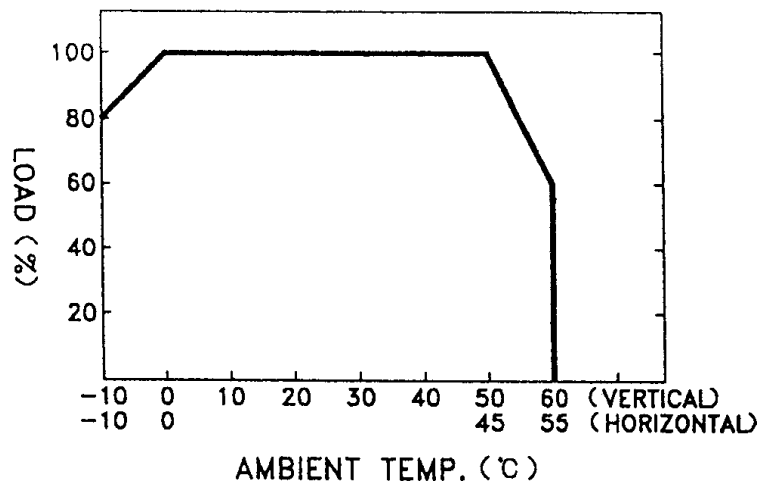


DIMENSIONS ARE INCH (mm)
TOLERANCES : .XXX +/- .010(.254)



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

OUTPUT DERATING CURVE



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.

* 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.

INPUT SPECIFICATIONS

Input Voltage Range	85-265 VAC
Frequency Range	47-440 Hz
Inrush Current, typ:	20A @ 115VAC Input *
	40A @ 230VAC Input *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (NL-FL)	+/-0.5%, typ
Line Regulation	+/- 0.5%, typ
Voltage Tolerance	+/-1%, typ
DC Voltage Adjust (typ)	6% of FS, typ
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise	1% Pk-Pk, typ
Over Voltage Protection	Clamp *
Short Circuit Protection	Indefinite
Hold Up Time	30mS, typ (Nom I/P, FL)

GENERAL SPECIFICATIONS

Input-Out Isolation	I/P-O/P: 3000VAC I/P-Ground: 2500VAC O/P-Ground 1000VAC
Efficiency	82%, typ
Switching Frequency	135Khz, typ
Safety (PENDING)	EN60950, IEC950 UL1950

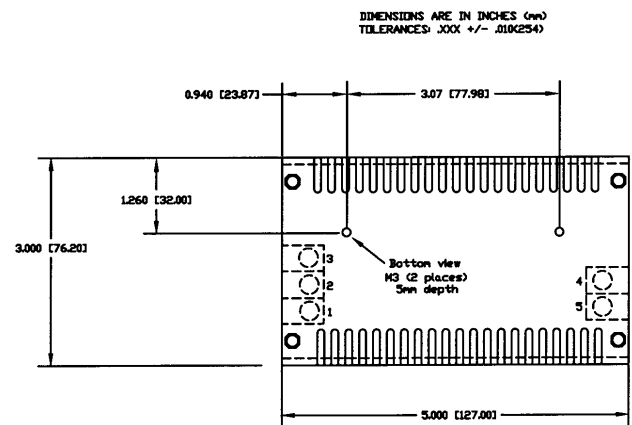
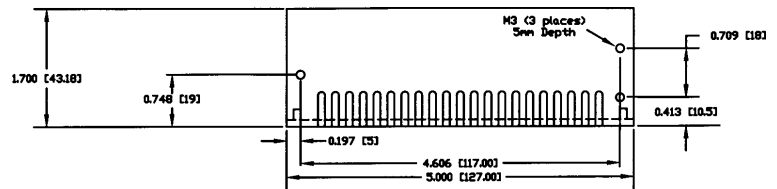
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60 DegC(see derate)
Over Temp Protection	Latching, recoverable after cooling and re-power
Storage Temperature	-25 to +71 DegC *
Relative Humidity	0 to + 95%, non-cond *
EMC (Designed to Meet)	CISPR22 (EN55022) IEC801-2,3,4
MTBF	64Khrs Mil Std 217, 25C

PHYSICAL SPECIFICATIONS

Size	5" x 3" x 1.7"
Construction	Enclosed
Weight	12 oz, (340g)

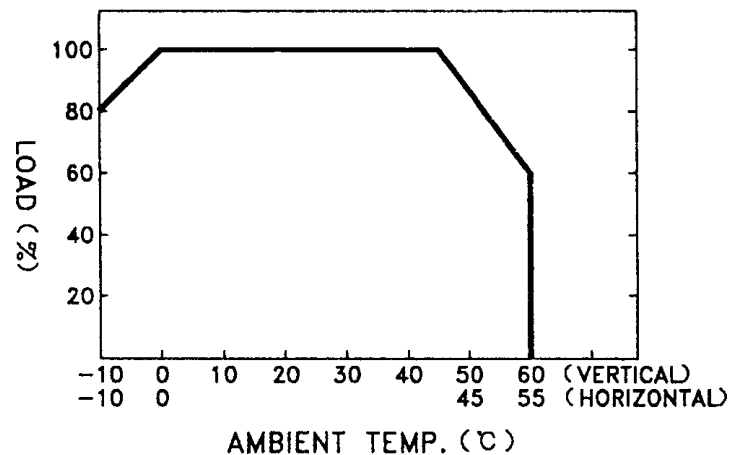
MECHANICAL DIMENSIONS



Pin # Outputs

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

OUTPUT DERATING CURVE



* 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.

INPUT SPECIFICATIONS

Input Voltage Range	88-132/176-264 VAC
	Auto Voltage Select
Frequency Range	47-440 Hz
Inrush Current, typ:	20A @ 100VAC *
	40A @ 200VAC *

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%/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: 3000VAC
	I/P-Ground: 1500VAC
	O/P-Ground: 500 VAC
Efficiency	78%, typ
Switching Frequency	100Khz, (fixed, typical)
Safety (PENDING)	EN60950, IEC950
	UL1950

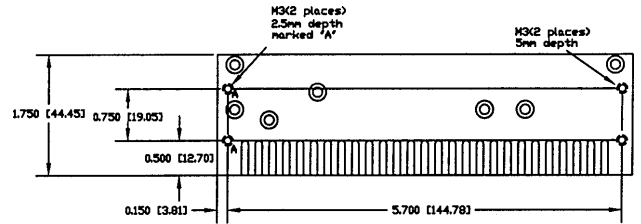
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60 DegC(See Derate)
Over Temp Protection	Latching, recoverable after cooling, and re-power
Storage Temperature	-25 to +71 DegC *
Relative Humidity	0% to +95%, non-cond *
EMC (Designed to Meet)	CISPR22 (EN55022)
	IEC1000-4-2,3,4,5
MTBF	898 kHrs
	Mil Std 217, 25C

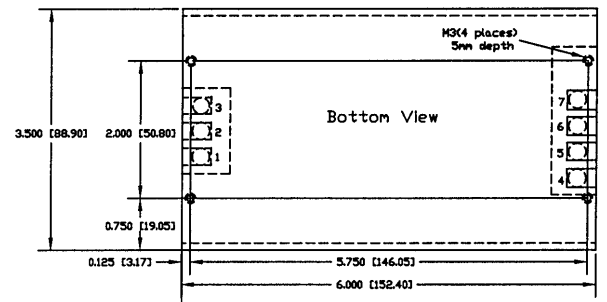
PHYSICAL SPECIFICATIONS

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

MECHANICAL DIMENSIONS



DIMENSIONS ARE IN INCH(es)
TOLERANCE .XXX +/- .02(0.508)

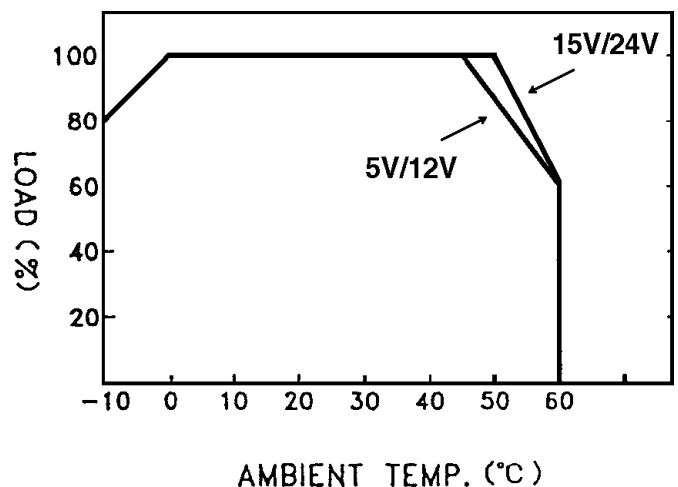


Pin

Outputs

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

OUTPUT DERATING CURVE



* 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.

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
Frequency Range	47-440 Hz
Inrush Current, typ:	20A/100VAC, 40A/200VAC *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (0% to 100% Load)	+/- 0.5%, typ
Line Regulation	+/- 0.5%, typ
Voltage Tolerance	+/-1%
DC Voltage Adjust (typ)	+/-6%, typ
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise	150mV pk-pk, typ
Over Voltage Protection	Latching, Re-power *
Short Circuit Protection	Indefinite
Hold Up Time	20mS, Nom I/P, FL

GENERAL SPECIFICATIONS

Input-Out Isolation	I/P-O/P: 3000VAC I/P-Ground: 1500VAC O/P-Ground: 500VAC
Efficiency	83%, typ
Switching Frequency	110Khz, (fixed, typical)
Safety (PENDING)	EN60950, IEC950 UL1950

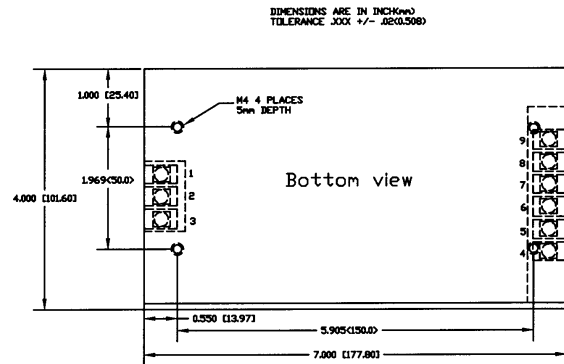
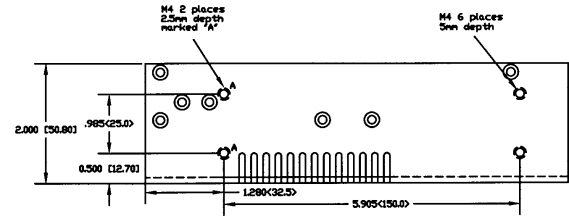
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60 DegC(See Derate)
Over Temp Protection	Latching, recoverable after cooling, and re-power
Storage Temperature	-25 to +71 DegC *
Relative Humidity	0% to +95%, non-cond *
MTBF	403 kHrs Mil Std 217, 25C

PHYSICAL SPECIFICATIONS

Size	7" x4" x 2"
Construction	Enclosed
Weight	1.95 lb, (880g)

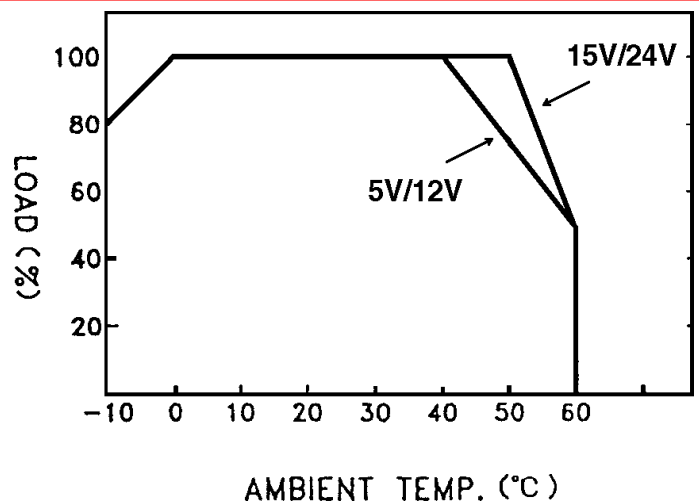
MECHANICAL DIMENSIONS



Pin # Outputs

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

OUTPUT DERATING CURVE



* 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.