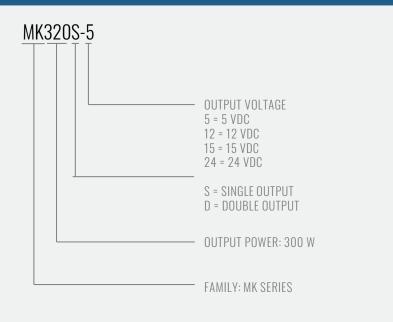




COMPACT 300-WATT ENCLOSED SWITCHING POWER SUPPLIES

The MK320S series is a 300-watt enclosed switching power supply with an auto-ranging input of 100-264 VAC, making it suitable for a wide range of global applications. This series boasts a compact design, enabling it to fit into confined spaces, and offers high efficiency, ensuring minimal energy loss and reduced heat generation. The regulated outputs available in this series include 5, 12, 15, and 24-volt DC, providing versatility for various medical devices and equipment. All MK320S series power supplies are equipped with built-in EMI filters, which help to reduce electromagnetic interference, ensuring the smooth operation of sensitive equipment.

HOW TO ORDER







FEATURES

UNIVERSAL INPUT VOLTAGE

Nominal: 110-120 / 200-240 VAC Maximum: 100-132 / 176-264 VAC

OUTPUT RANGE

300 Watts Output

OPERATING TEMPERATURE

-10 to +60°C (See Derate)

SAFETY APPROVALS

UL/cUL: UL60950-1 2nd ed. CSA C22.2 60950-1 2nd ed. CB: IEC60950-1 2nd ed.

EFFICIENCY

85%, typ (78% 5Vout)

ISOLATION

4242 VDC

EMI (Designed to Meet)

EN55011, Class B

CONSTRUCTION

Enclosed





COMPACT 300-WATT ENCLOSED SWITCHING POWER SUPPLIES

PARAMETERS MK320S

L ALVAIMETEIV?	WK32U3		
Input Voltage	Nominal: 110-120 / 200-240 VAC Maximum: 100-132 / 176-264 VAC Auto Voltage Select		
Frequency Range	47-63 Hz		
Inrush Current, typ:	20A/100VAC, 40A/200VAC *		
Leakage Current	<3.5mA @ 264VAC, 50Hz		
Voltage and Current	See Selection Chart		
Load Regulation	(20% to 100% Load) ± 0.5%, nom (±1% for 5Vout)		
Line Regulation	± 0.5%, nom (±1% for 5Vout)		
Voltage Tolerance	± 1%		
DC Voltage Adjust (typ)	± 6%, typ		
Temperature Coefficient	+/-0.03%/°C		
Ripple/Noise	See Selection Chart		
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	≤ 1.0 sec, typ		
Rise Time	≤ 20 msec, typ		
Over/Under Shoot	< 10% of FS		
Isolation	I/P-O/P: 4242VDC I/P-Ground: 2121VDC O/P-Ground: 707VDC		
Efficiency	85%, typ (78% 5Vout)		
Switching Frequency	110Khz, (fixed, typical)		
Safety	UL/cUL: UL60950-1 2nd ed. CSA C22.2 60950-1 2nd ed. CB: IEC60950-1 2nd ed.		
MTBF	100,000 Hrs		
Oper. Temperature	-10 to +60°C (See Derate)		
Storage Temperature	-25 to +70°C *		
Relative Humidity	10% to +90%, non-cond *		
EMI (Designed to Meet)	EN55011, Class B		
Size	4" x 7" x 2"		
Construction	Enclosed		
Weight	1.95 lb, (880g)		

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

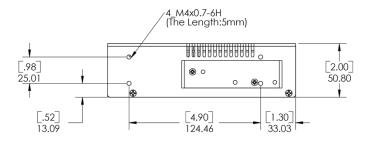
^{*} These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Proper operation under conditions other than standard conditions is neither warranted nor implied.

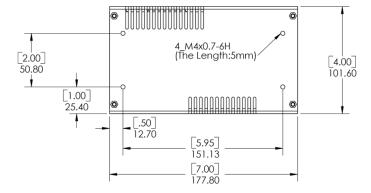


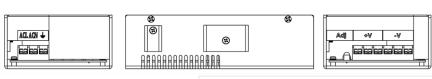


COMPACT 300-WATT ENCLOSED SWITCHING POWER SUPPLIES

MECHANICAL DIMENSION







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 before applying power to the unit

Note: For our M4 x 0.7 aluminum threaded holes:

Recommended torque: 4.5 in-lbs, 5 in-lbs maximum (5 kgf-cm/5.5 kgf-cm max)

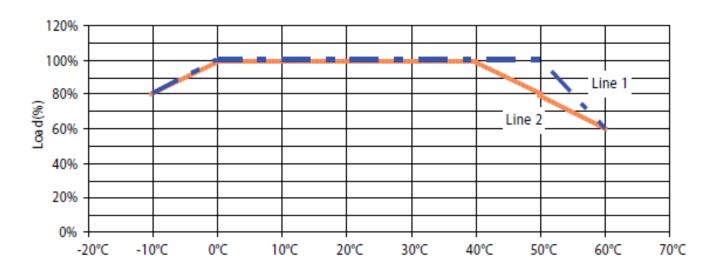
MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT AMPS (MAX)	RIPPLE/NOISE PP,TYP
MMK320S-5	5 VDC	50	150 mv
MMK320S-12	12 VDC	25	100 mv
MMK320S-15	15 VDC	20	100 mv
MMK320S-24	24 VDC	12.5	100 mv





COMPACT 300-WATT ENCLOSED SWITCHING POWER SUPPLIES

OUTPUT DERATING CURVE



1. Line 1:15V、24V 2. Line 2:5V、12V