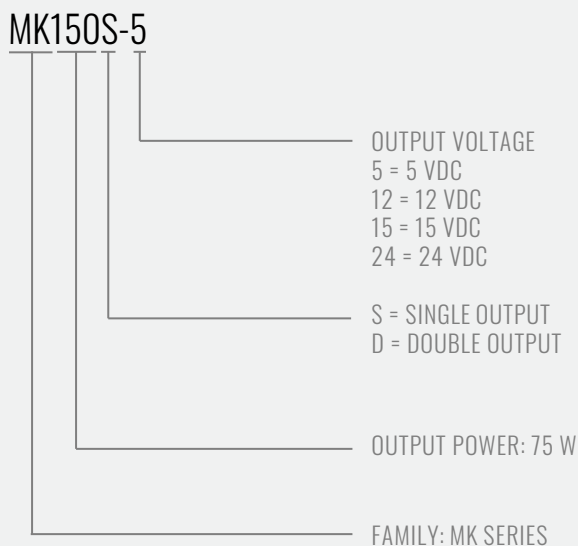


MK150S

COMPACT 150-WATT ENCLOSED SWITCHING POWER SUPPLIES

The MK150S series is a 150-watt enclosed switching power supply with a universal input range of 90-264 VAC, making it ideal for various global applications. This series features a compact design, allowing it to fit into tight 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 flexibility for different medical devices and equipment. All MK150S series power supplies come with built-in EMI filters, which help to minimize electromagnetic interference, ensuring the smooth operation of sensitive equipment.

HOW TO ORDER



FEATURES

UNIVERSAL INPUT VOLTAGE
90-132/176-264 VAC
100-120 / 200-240VAC Nominal

OUTPUT RANGE
150 Watts Output

OPERATING TEMPERATURE
0 to +60°C (See Derate)

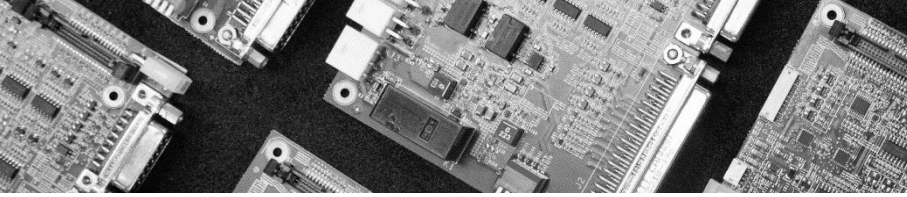
SAFETY APPROVALS
UL/cUL: UL60950-1 2nd ed./
C22.2 60950-1 2nd ed.
UL-EU: EN60950-1 2nd ed.
CE: EN60601-1-2
CB: IEC60950-1 2nd ed.

EFFICIENCY
77~80%, typ

ISOLATION
4242 VDC

EMI (Designed to Meet)
EN55011, Class B

CONSTRUCTION
Enclosed



MK150S

COMPACT 150-WATT ENCLOSED SWITCHING POWER SUPPLIES

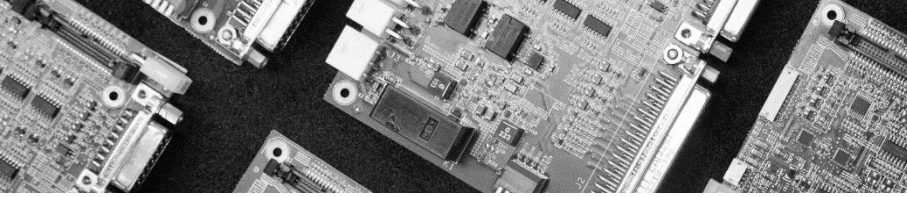
PARAMETERS

MK150S

Input Voltage, Nominal	90-132/176-264 VAC 100-120 / 200-240VAC Nominal
Frequency Range	47-63 Hz
Inrush Current, typ:	20A @ 100VAC * 40A @ 200VAC *
Leakage Current	<3.5mA @ 264VAC, 50Hz
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	≤ 250 mS, typ
Over/Under Shoot	< 10% of FS
Isolation	I/P-O/P: 4242VDC I/P-Ground: 2121VDC O/P-Ground: 707VDC
Efficiency	77~80%, typ
Switching Frequency	100Khz, (fixed, typical)
Safety	UL/cUL: UL60950-1 2nd ed./ C22.2 60950-1 2nd ed. UL-EU: EN60950-1 2nd ed. CE: EN60601-1-2 CB: IEC60950-1 2nd ed.
MTBF	100,000 Hrs Mil Std 217, 25°C
Oper. Temperature	0 to +60°C (See Derate)
Storage Temperature	-25 to +85°C *
Relative Humidity	10% to +95%, non-cond *
EMI (Designed to Meet)	EN55011, Class B
Size	6" x 3.5" x 1.75"
Construction	Enclosed
Weight	1.37 lb, (630g)

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

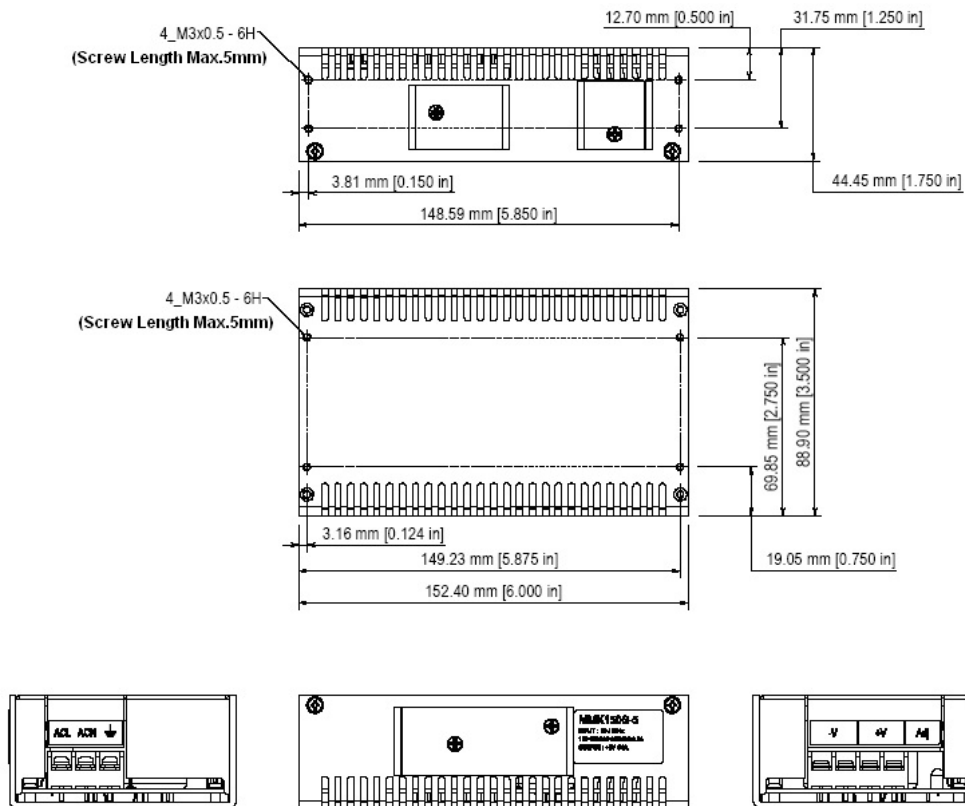
* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Proper operation under conditions other than standard conditions is neither warranted nor implied.



MK150S

COMPACT 150-WATT ENCLOSED SWITCHING POWER SUPPLIES

MECHANICAL DIMENSION

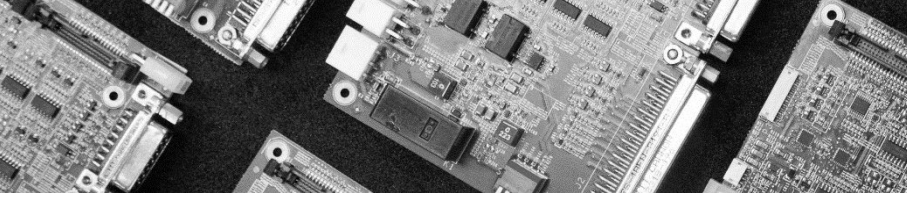


PLEASE NOTE:

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 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)

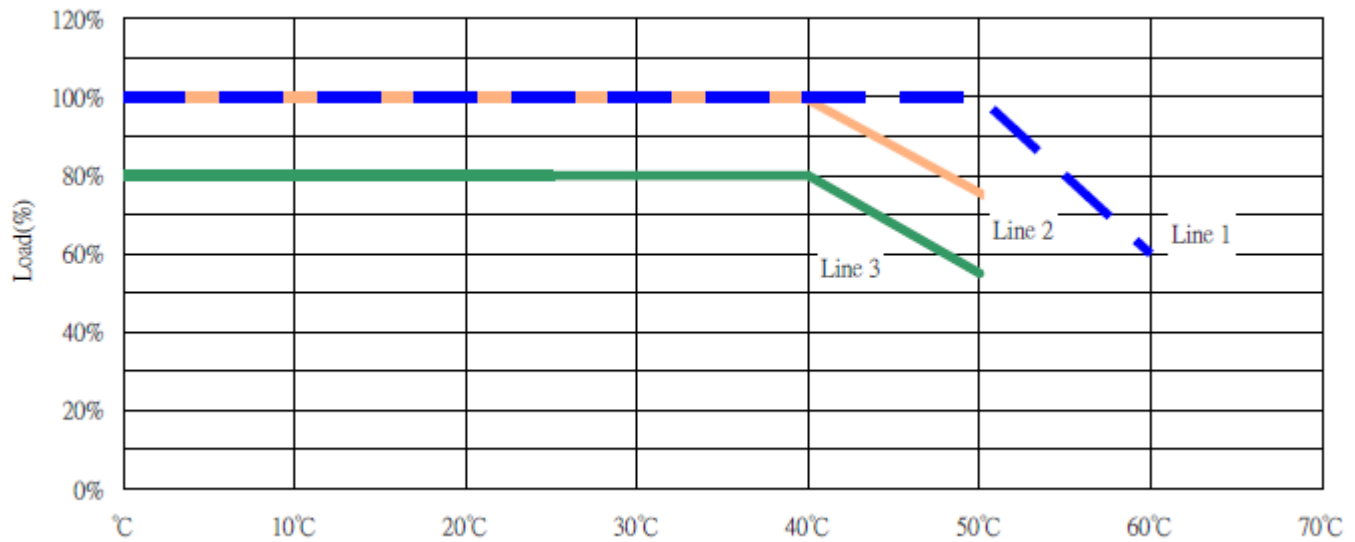
MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT AMPS (MAX)	RIPPLE/NOISE PP,TYP
MMK150S-5	5 VDC	30	100 mv
MMK150S-12	12 VDC	12.5	100 mv
MMK150S-15	15 VDC	10	100 mv
MMK150S-24	24 VDC	6.25	100 mv



MK150S

COMPACT 150-WATT ENCLOSED SWITCHING POWER SUPPLIES

OUTPUT DERATING CURVE



1. Line 1 : Force air cooling.
2. Line 2 : 12V, 15V & 24V convection cooling.
3. Line 3 : 5V convection cooling.