

# MMK75S

## MEDICAL GRADE 75 WATT ENCLOSED SWITCHING POWER SUPPLIES

The MMK75S series is a medical grade 75-watt enclosed switching power supply with a universal input range of 90-264 VAC, making it suitable for various global applications. This power supply series features a compact footprint, allowing it to fit into tight spaces, and boasts high efficiency, ensuring minimal energy loss and reduced heat generation. The regulated outputs available in this series include 12, 15, and 24-volt DC, providing versatility for different medical devices and equipment. All MMK75S series power supplies come equipped with built-in EMI filters, which help to minimize electromagnetic interference, ensuring the smooth operation of sensitive medical equipment.

### HOW TO ORDER

MMK75S-12

OUTPUT VOLTAGE  
12 = 12 VDC  
15 = 15 VDC  
24 = 24 VDC

S = SINGLE OUTPUT  
D = DOUBLE OUTPUT

OUTPUT POWER: 75 W

FAMILY: MMK SERIES



### FEATURES

#### UNIVERSAL INPUT VOLTAGE

90-264 VAC;  
(110-240VAC Nominal.)

#### OUTPUT RANGE

75 Watts Output

#### OPERATING TEMPERATURE

0 to +60°C (See Derate)

#### SAFETY APPROVALS

UL/cUL: ANSI/AAMI ES60601-1 3rd ed.  
CSA C22.2 No. 60601-1 3rd ed.  
UL-EU: EN60601-1 3rd ed.  
CB: IEC60601-1 3rd ed.  
CE: EN60601-1-2

#### EFFICIENCY

82%, typ 24V: 84%

#### ISOLATION

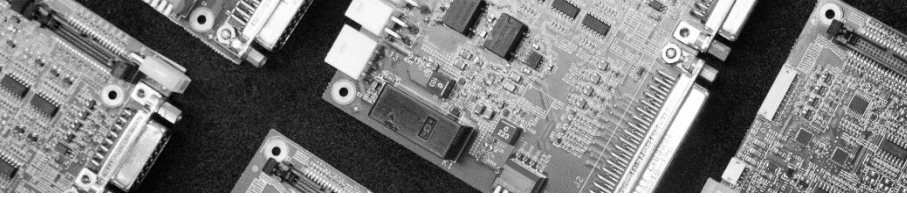
5656 VDC

#### EMI (Designed to Meet)

EN55011, Class B

#### CONSTRUCTION

Enclosed



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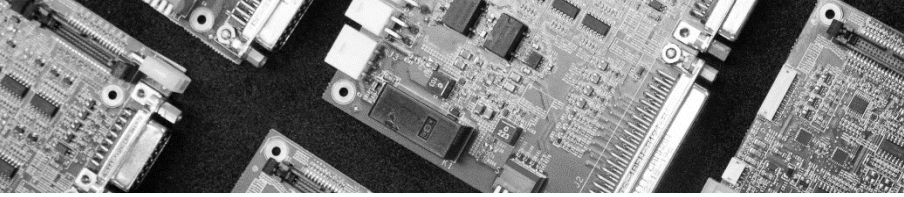
### PARAMETERS

### MMK75S

Input Voltage, Nominal	90-264 VAC; (110-240VAC Nominal.)
Frequency Range	47-63 Hz
Inrush Current, typ:	20A @ 115VAC Input * 40A @ 230VAC Input *
Leakage Current	<0.3mA @ 240VAC, 50Hz
Voltage and Current	See Selection Chart
Load Regulation (20%-100%)	± 1%, typ
Line Regulation	± 0.5, typ
Voltage Tolerance	± 1%, typ
DC Voltage Adjust (typ)	6% of FS, typ
Temperature Coefficient	+/-0.03%/°C
Ripple/Noise	1% Pk-Pk, typ
Over Voltage Protection	130% max. auto-recovery *
Over Current Protection	150% 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	≤ 25 msec, typ
Over/Under Shoot	< 10% of FS
Isolation	I/P-O/P: 5656VDC I/P-Ground: 2121VDC O/P-Ground: 707VDC
Efficiency	82%, typ 24V: 84%
Safety	UL/cUL: ANSI/AAMI ES60601-1 3rd ed. CSA C22.2 No. 60601-1 3rd ed. UL-EU: EN60601-1 3rd ed. CB: IEC60601-1 3rd ed. CE: EN60601-1-2
MTBF	100,000 Hours
Oper. Temperature	0 to +60°C (See Derate)
Storage Temperature	-25 to +71°C *
Relative Humidity	10% to +95%, non-cond *
EMI (Designed to Meet)	EN55011, Class B
Size	5" x 3" x 1.7"
Construction	Enclosed
Weight	12 oz, (340g)

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

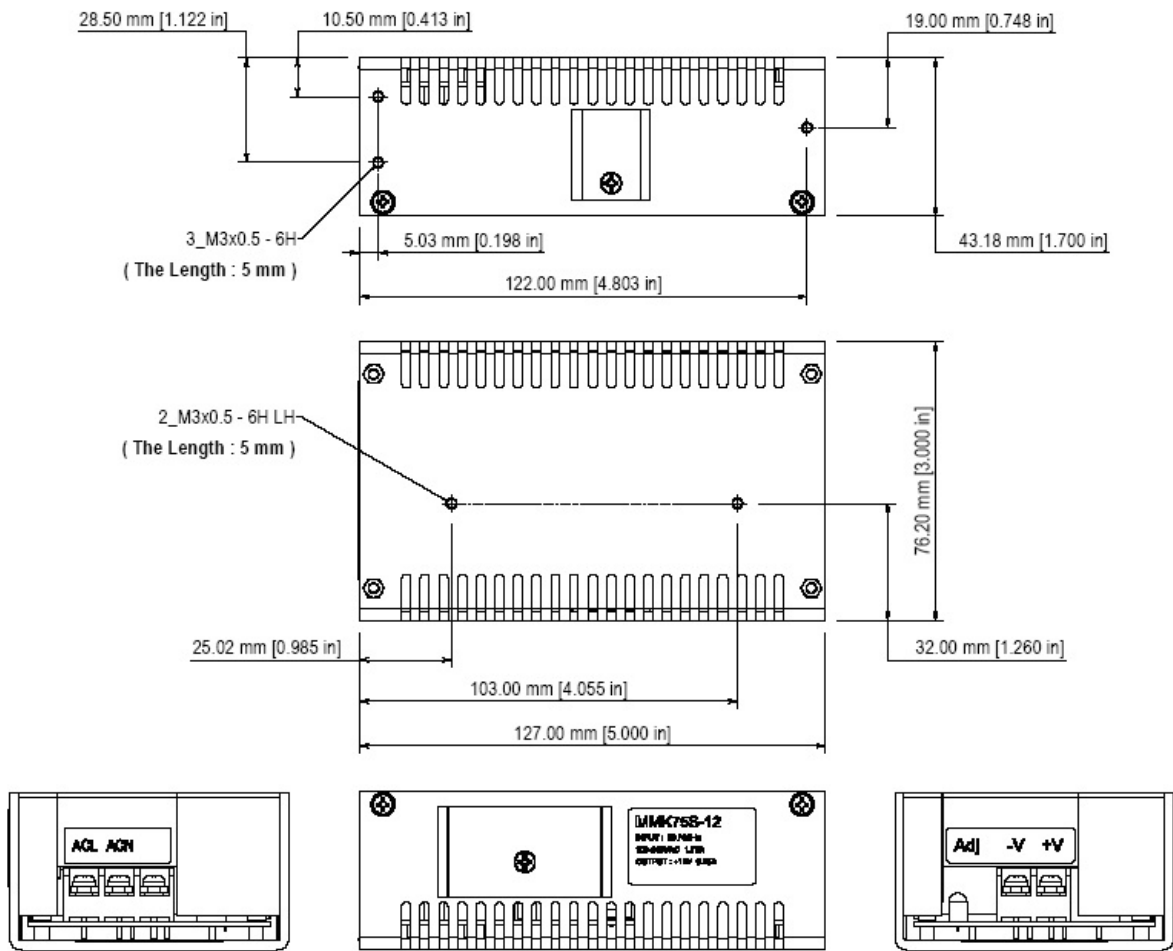
\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Proper operation under conditions other than standard conditions is neither warranted nor implied.



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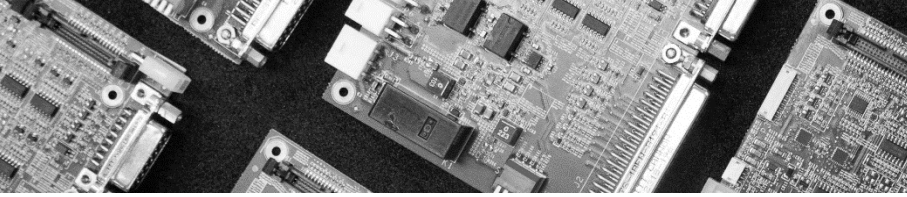
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### MECHANICAL DIMENSION



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
MMK75S-12	12 VDC	6.25	120 mv
MMK75S-15	15 VDC	5	150 mv
MK475S-24	24 VDC	3.13	240 mv



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## MEDICAL GRADE 75 WATT ENCLOSED SWITCHING POWER SUPPLIES

### OUTPUT DERATING CURVE

