

MPU60 Series

63 WATTS - AC/DC SINGLE OUTPUT

MEDICAL

FEATURES

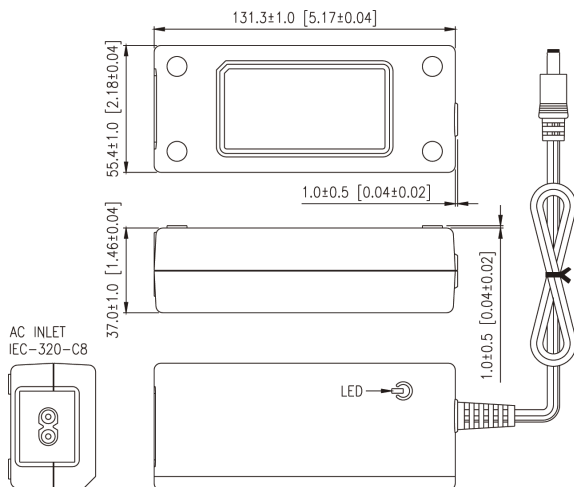
- Wide Input Voltage 90 to 264 VAC
- 100% burn in & tested
- Output Voltage Available 12VDC - 48VDC
- Input surge current protection
- Over Voltage and Over Load protection
- Class I and Class II models
- Ultra Low leakage current
- Energy star 2.0, efficiency level V



SPECIFICATIONS

INPUT	
Voltage range	90-264VAC
Frequency	47-63 Hz
Inrush current	36 A Max @ 115 VAC, 47 A Max @ 230 VAC, at 25°C cold start
Input current	1.62 A (rms) typ for 115 VAC, I _o =full load 0.72 A (rms) typ for 230 VAC, I _o =full load
Earth Leakage Current	0.1mA max. @ 240VAC, I _o =full load
Isolation	Input – Output: 5600VDC Input – Ground: 2800VDC
Isolation resistance	50MΩ, test voltage = 500VDC
No load power consumption	0.4W typ, V _{in} =240VAC
OUTPUT	
Output voltage	See table
Output current	See table
Ripple and noise	1% typ p-p, full load, V _{in} 100VAC
Line regulation	1% typ, I _o =full load
Load regulation	3-5% Max, V _{in} =230VAC
Transient response	4mS, I _o =Full Load to Half Load, V _{in} =100VAC
Over voltage protection	112-132% of output voltage
Over current protection	110-150%
Temperature coefficient	±0.04% /°C maximum
Hold-up time	16 ms minimum at 110 VAC

TECHNICAL ILLUSTRATION



OPERATING	
MTBF	100,000 hours minimum at full load at 25°C ambient, calculated per MIL-HDBK-217F
Efficiency	82 – 97%, I _o =full load, V _{in} =230VAC, model dependant
ENVIRONMENTAL	
Operating temperature	0°C to +70°C maximum
Storage temperature	-40°C to +85°C
Relative humidity	5% to 95% non-condensing
Derating	Derate linearly from 100% at +50°C to 50% load at +70°C
STANDARDS & APPROVALS	
Safety	UL 94V-1, UL/c-UL(UL 60601-1), TÜV/T-marked EN 60601-1, CE requirements
C-Tick	AS/NZS CISPR11 Group1, Class A
EMC standards	FCC PART-18 Class B, CISPR-11 EN55011 Class B
MECHANICAL	
Dimensions	131 x 55.4 x 37mm
Weight	330-380g

SELECTION TABLE

MODEL CLASS I	MODEL CLASS II	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAX OUTPUT POWER
MPU60A-105	MPU60B-105	12 VDC	5.25 A	5%	63W
MPU60A-106	MPU60B-106	15 VDC	4.20 A	5%	63W
MPU60A-107	MPU60B-107	18 VDC	3.50 A	5%	63W
MPU60A-108	MPU60B-108	24 VDC	2.62 A	3%	63W
MPU60A-109	MPU60B-109	30 VDC	2.10 A	3%	63W
MPU60A-110	MPU60B-110	36 VDC	1.75 A	3%	63W
MPU60A-111	MPU60B-111	48 VDC	1.31 A	3%	63W