

MBU150 Series

70-80 WATTS - AC/DC SINGLE OUTPUT

MEDICAL

FEATURES

- Wide Input Voltage 90 to 260 VAC, 47 to 63 Hz
- Internal EMI filter
- Single Output
- Input Surge Current, Over Voltage and Over Load protection
- Output Voltage Protection
- Class I



SPECIFICATIONS

INPUT	
Voltage range	90-264VAC
Frequency	47-63 Hz
Inrush current	54 A Max @ 115 VAC, 63 A Max @ 230 VAC, at 25°C cold start
Input current	2.1 A Max (rms) typ for 115 VAC, I _o =full load 0.8 A Max (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 = 2100VDC
OUTPUT	
Output voltage	See table
Output current	See table
Ripple and noise	0.5-1% Max p-p, full load, V _{in} 90VAC
Line regulation	0.5% typ, I _o =full load
Load regulation	3-7% 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

OPERATING	
MTBF	100,000 hours minimum at full load at 25°C ambient, calculated per MIL-HDBK-217F
Efficiency	74-90%, 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/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	127 x 76.2 x 21.6mm
Weight	300g approx

SELECTION TABLE

MODEL CLASS I	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAX OUTPUT POWER
MBU150-105	12 VDC	12.50 A	5%	150W
MBU150-108	24 VDC	6.25 A	3%	150W

TECHNICAL ILLUSTRATION

