MBU151 SERIES

150W Open Frame Switching Power Supplies For Medical Equipment.

Description:

The MBU151 series of compact, open frame constructed, AC/DC switching mode power supplies provide 150 Watts of continuous output power. They are suited for use in hospital instrument and many other applications. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission Limits and are designed to comply with UL/c-UL(UL 60601-1:2ndEdition) and new CE requirements. All units are 100% burned in and tested.

Features:

- Wide Operating Voltage 100 to 240 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal
- Input Surge Current, Over Voltage and Over Load protection
- Output Voltage Protection(Crowbar Design)
- Active Power Factor Correction
- Size: 3"x5"x1.44"
- Class I
- 3 year warranty



Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vin	Input Voltage	Operating Voltage	100		240	VAC
fin	Input Frequency		47		63	Hz
PF	Power Factor Correction	Io=Full load, Vin=100~240VAC	0.95	0.97	1.0	
Ро	Output Power Range	Vin=100 to 240 VAC	0		150	W
Vo	Output Voltage Range		See ra	ating	Chart	V
Io	Output Current Range		See ra	ating	Chart	A
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			2	А
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			1.2	A
Irl	Low Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=115VAC		28	31	А
I rh	High Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=230VAC		57	63	A
Eff	Efficiency	Io=Full load, Vin=230VAC	82	85	87	ે
REG-i	Line Regulation	Io=Full load		0.5	1	왕
REG →	Load Regulation	Vin=230VAC		3	5	양
OVP	Over Voltage Protection		112		132	양
OCP	Over Current Protection		110		150	90
Ttr	Time of Transient Response	Io=Full load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full load, Vin=110VAC	20			mS
Ts	Start Up Time	Io=Full load, Vin=100VAC			2	S
Vp-p	Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC		0.5	1	ુ
Ilk	Safety Ground Leakage Current	Io=Full load, Vin=240VAC		0.075	0.1	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

Environmental:

Sym.	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Toper	Operating Temperature		0	50	70	°C
Tstg	Storage Temperature		-40		85	°C
Но	Operating Humidity		0		95	%
Hr	Storage Humidity		0		95	્ર
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F					Hrs
Pd	Derate linearly from 100% load at 50°C to 50% load at 70°C					

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Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary				VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2828			VDC
Ris	Isolation Resistance	Test Voltage=500VDC				Ω M
CISPR	EMI requirements for CISPR-11	Vin=220VAC	В			CLASS
FCC	EMI requirements for FCC PART-18	Vin=110VAC	В			CLASS

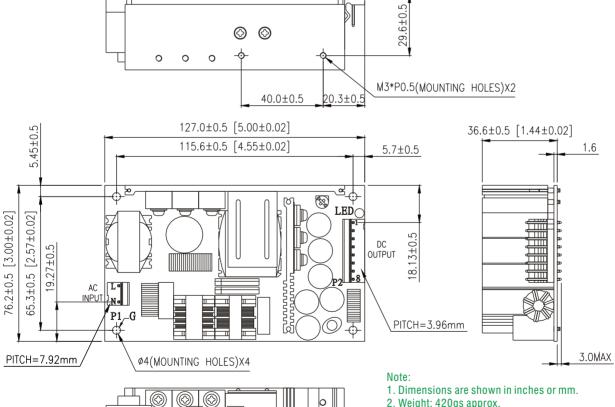
Output Voltage And Current Rating Chart (Single Output):

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power		
MBU151-105	12 VDC	12.50 A	5%	150W		
MBU151-108	24 VDC	6.25 A	3%	150W		

Mechanical Specifications:

PIN CHART

PIN	1	2	3	4	5	6	7	8
MBU151-1XX	Vout	Vout	Vout	Vout	RTN	RTN	RTN	RTN



- 2. Weight: 420gs approx.
- 3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
- 4. Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal