



E-Star Power Development Co., Ltd. (E-STAR)

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150W Open Frame type Medical power supply < MBU151

Features:

- Wide Operating Voltage 90 to 260 VAC, 47 to 63 Hz
- Internal EMI filter
- Single Output
- Active Power Factor Correction
- Size: 3"x5"x1.44"
- Class I
- 3 year warranty



Electrical Characteristics:

Vin	Safety Approvals Input Voltage Range	100~240VAC
	Operate Voltage Range	90~260VAC
fin	Input Frequency	47~63Hz
PF	Power Factor Correction	Io=Full load, Vin=240VAC
Po	Output Power Range	See rating chart
Vo	Output Voltage Range	See rating chart
Io	Output Current Range	See rating chart
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC
Eff	Efficiency	Io=Full Load, Vin=230VAC
REG-i	Line Regulation	Io=Full Load
REG-o	Load Regulation	Vin=230VAC
OVP	Over Voltage Protection	112~132%
OCP	Over Current Protection	110~150%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC
Th	Hold-Up Time	Io=Full Load, Vin=110VAC
Ts	Start Up Time	Io=Full Load, Vin=100VAC
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz
TC	Temperature Coefficient	All output
OA	Operating Altitude	Up to 3000m
Pno	No-Load Power Consumption	No load, Vin=230VAC
Vps	Dielectric Withstanding Voltage	Primary to secondary
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE
Ris	Isolation Resistance	Test Voltage=500VDC

Application:

- Medical Touch Panel PC
- Patient Monitoring System
- Ultrasound System

Safety Approvals:

c US



Environmental

To	Operating Temperature	See derating curve
Ts	Storage Temperature	-40~85°C
Ho	Operating Humidity	0~95%
Hr	Storage Humidity	0~95%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	0.1M Hrs (min.)
Pd	Derate linearly from 100% load at 50°C to 50% load at 70°C	

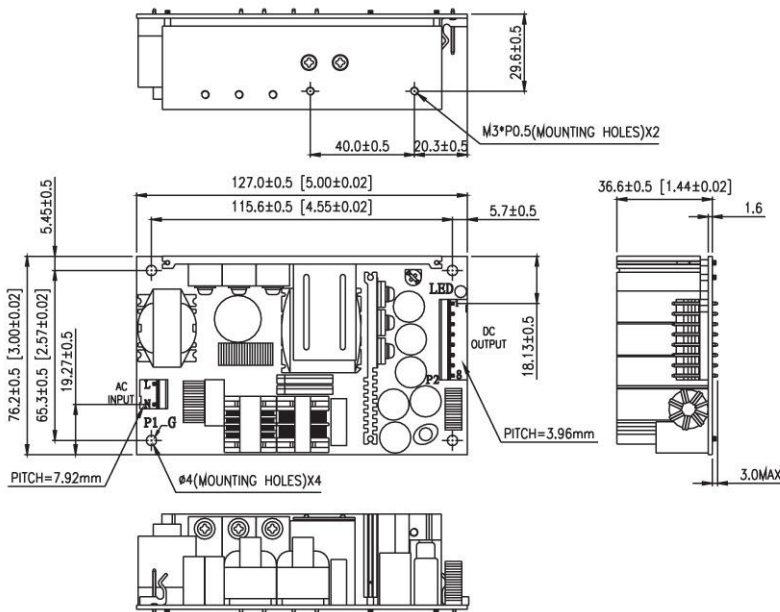


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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
MBU151-105	12 VDC	12.50 A	5%	150W	1.5W
MBU151-108	24 VDC	6.25 A	3%	150W	1.5W

Mechanical Specifications:



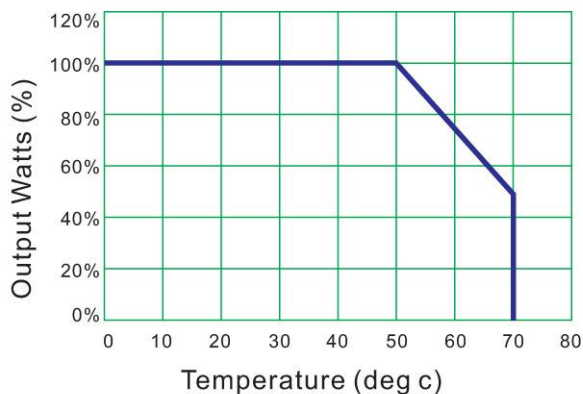
PIN CHART

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

Note:

1. Dimensions are shown in inches or mm.
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

Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C