MBU80 series

80W Open Frame Type
Medical Power Supplies

Features:

- Wide Operating Voltage 90 to 260 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Active Power Factor Correction
- Over Voltage and Over Load protection
- Output Voltage Protection (Crowbar Design)
- Size: 3"x5"x1.1"
- 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=240 VAC	0.95~1
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	1.2A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.4A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	28A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	56A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	72.5~85%
REG-i	Line Regulation	Io=Full Load	1% (max.)
REG-o	Load Regulation	Vin=230VAC	5% (max.)
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	4mS (max.)
Th	Hold-Up Time	Io=Full Load, Vin=110VAC	16mS (min.)
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3~2S
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	1% (max.)
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz	0.1mA (max.)
TC	Temperature Coefficient	All output	±0.04%/°C
OA	Operating Altitude		Up to 3000m
Pno	No-Load Power Consumption	No load, Vin=230VAC	See rating chart
Vps	Dielectric Withstanding Voltage	Primary to secondary	6420VDC (min.)
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE	2503VDC (min.)
Ris	Isolation Resistance	Test Voltage=500VDC	50MΩ (min.)

Recommend to be used on the metal chassis.

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	

Application:

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

Safety Approvals:

RoHS 2002/95/EC COMPLIANT

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Output Voltage And Current Rating Chart (Single Output) :

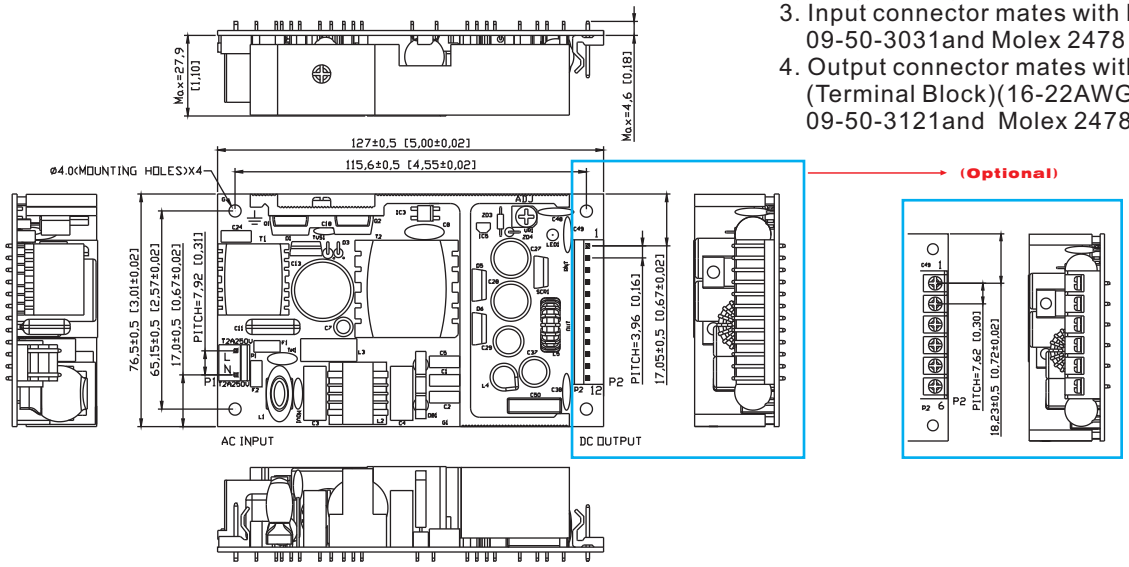
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
MBU80-102	5 VDC	14.00 A	5%	70W	0.5W
MBU80-103	7 VDC	11.43 A	5%	80W	0.5W
MBU80-104	9 VDC	8.89 A	4%	80W	0.5W
MBU80-105	12 VDC	6.66 A	3%	80W	0.5W
MBU80-106	15 VDC	5.33 A	3%	80W	0.5W
MBU80-107	18 VDC	4.44 A	3%	80W	0.5W
MBU80-108	24 VDC	3.33 A	2%	80W	0.5W
MBU80-109	30 VDC	2.66 A	2%	80W	0.5W
MBU80-110	36 VDC	2.22 A	2%	80W	0.5W

PIN CHART

PIN / MODEL	1	2	3	4	5	6	7	8	9	10	11	12
MBU80-1XX-12PIN	RTN	RTN	RTN	RTN	RTN	RTN	Vout	Vout	Vout	Vout	Vout	Vout

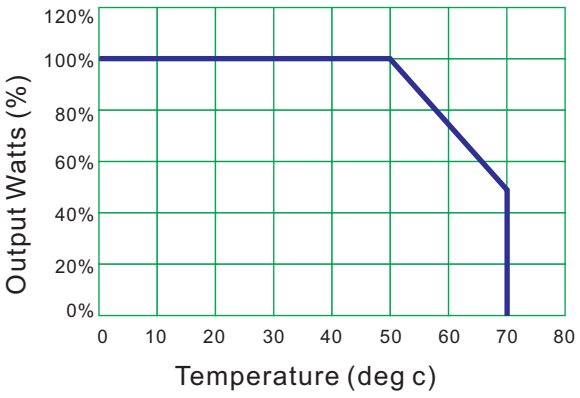
PIN / MODEL	1	2	3	4	5	6
MBU80-1XX-6PIN	RTN	RTN	RTN	Vout	Vout	Vout

Mechanical Specifications:



Note:
1. Dimensions are shown in inches or mm.
2. Weight: 300gs approx.
3. Input connector mates with Molex housing 09-50-3031and Molex 2478 series crimp terminal.
4. Output connector mates with screw terminal (Terminal Block)(16-22AWG)or Molex housing 09-50-3121and Molex 2478 series crim erminal.

Derating Curve :



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

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