

TPMBU120 SERIES

120W 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"x1.42"
- 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=260 VAC
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

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:

cULus CB CE

FC RoHS 2002/95/EC COMPLIANT



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Output Voltage And Current Rating Chart (Single Output) :

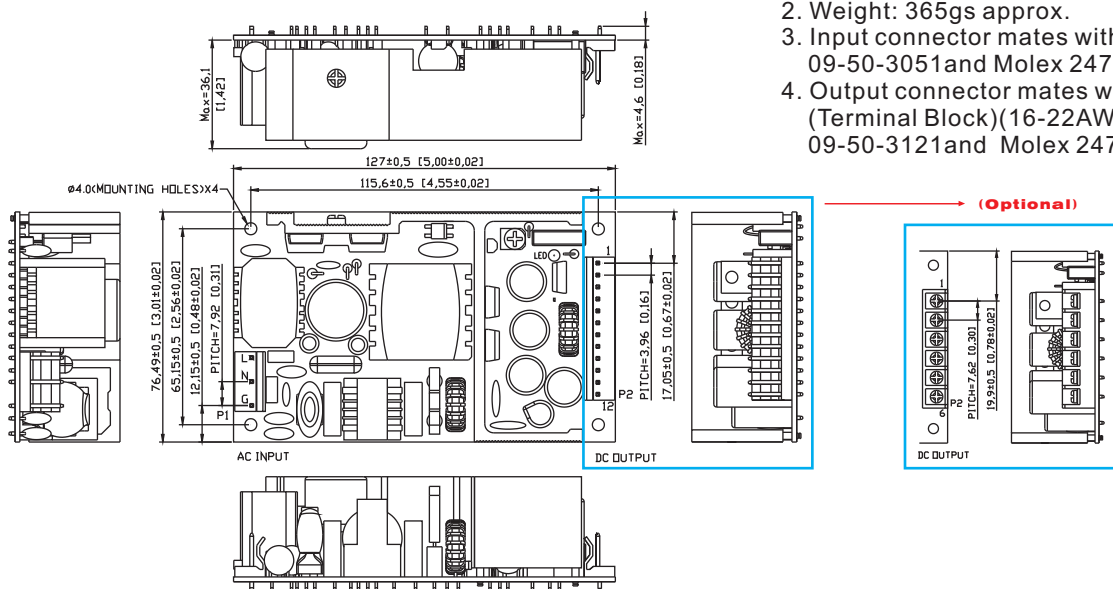
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPMBU120-102	5~6 VDC	20.00~16.66 A	7%	100W	0.5W
TPMBU120-103	6~9 VDC	18.33~12.22 A	7%	110W	0.5W
TPMBU120-104	9~11 VDC	13.33~10.90 A	5%	120W	0.5W
TPMBU120-105	11~13 VDC	10.90~9.23 A	5%	120W	0.5W
TPMBU120-106	13~16 VDC	9.23~7.50 A	5%	120W	0.5W
TPMBU120-107	16~21 VDC	7.50~5.71 A	3%	120W	0.5W
TPMBU120-108	21~27 VDC	5.71~4.44 A	3%	120W	0.5W
TPMBU120-109	27~33 VDC	4.44~3.63 A	2%	120W	0.5W
TPMBU120-110	33~40 VDC	3.63~3.00 A	2%	120W	0.5W

PIN CHART

PIN MODEL	1	2	3	4	5	6	7	8	9	10	11	12
TPMBU120-1XX-12PIN	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN

PIN MODEL	1	2	3	4	5	6
TPMBU120-1XX-6PIN	OUT	OUT	OUT	RTN	RTN	RTN

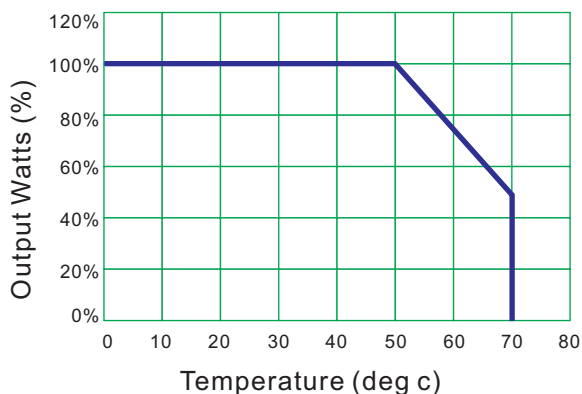
Mechanical Specifications:



Note:

1. Dimensions are shown in inches or mm.
2. Weight: 365gs approx.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with screw terminal (Terminal Block)(16-22AWG) or Molex housing 09-50-3121 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

