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:

	l	1		
Vin	Safety Approvals Input Voltage Range	100~240VAC		
	Operate Voltage Range	90~260VAC		
fin	Input Frequency		47~63Hz	
PF	Power Factor Correction	lo=Full load, Vin=260 VAC	0.95~1	
Po	Output Power Range		See rating chart	
Vo	Output Voltage Range		See rating chart	
lo	Output Current Range		See rating chart	
lil	Input Current (Low Line)	lo=Full load, Vin=100VAC	1.7A	
lih	Input Current (High Line)	lo=Full load, Vin=240VAC	0.8A	
la.	Low Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=115VAC	30A (max.)	
lr	High Line Inrush Current	lo=Full load, 25°C, Cool start, Vin=230VAC	60A (max.)	
Eff	Efficiency	lo=Full Load, Vin=230VAC	72.5~88%	
REG-i	Line Regulation	lo=Full Load	1% (max.)	
REG-o	Load Regulation	Vin=230VAC	5% (max.)	
OVP	Over Voltage Protection		112~132%	
ОСР	Over Current Protection		110~150%	
Ttr	Time of Transient Response	lo=Full Load to Half Load, Vin=100VAC	4mS (max.)	
Th	Hold-Up Time	lo=Full Load, Vin=110VAC	16mS (min.)	
Ts	Start Up Time	lo=Full Load, Vin=100VAC	0.3~2S	
V p-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	1% (max.)	
llk	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	6290VDC (min.)	
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE	2438VDC (min.)	
Ris	Isolation Resistance	Test Voltage=500VDC	50M Ω (min.)	

Recommend to be used on the metal chassis.

Environmental

То	Operating Temperature	See derating curve
Ts	Storage Temperature	-40~85°C
Но	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: c**91**°us CB (€









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120W Open Frame Type

Medical Power Supplies

Output Voltage And Current Rating Chart (Single Output):

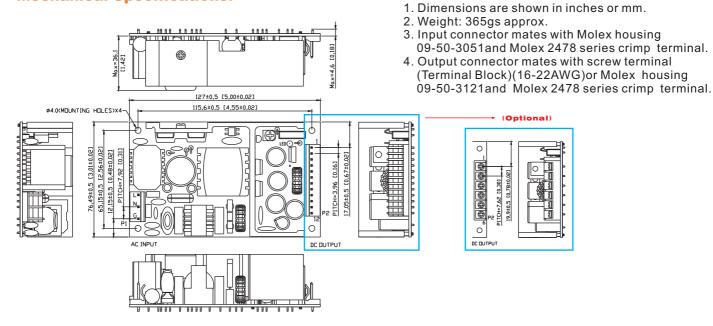
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPMBU120-102	5~6 VDC	20.00~16.66 A	7%	100W	0.5W
TPMBU120-103	6~9 VDC	18.33~12.22 A	7%	110W	0.5W
TPMBU120-104	9~11 VDC	13.33~10.90 A	5%	120W	0.5W
TPMBU120-105	11~13 VDC	10.90~9.23 A	5%	120W	0.5W
TPMBU120-106	13~16 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

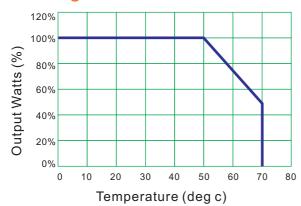
PIN	1	2	3	4	5	6	7	8	9	10	11	12
TPMBU120-1XX-12PIN	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN

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

Mechanical Specifications:



Derating Curve:



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

