

FEATURES

- Single Output
- 3 Year Warranty
- Class I Insulation
- Internal EMI Filter
- Output Voltage Protection (Crowbar Design)
- Wide Input Voltage Range: 90 ~ 260VAC, 47 ~ 63Hz
- Input Surge Current, Over Voltage, and Over Load Protection



DESCRIPTION

The PSMBU80 series of AC/DC medical power supplies provides 80 Watts of continuous output power in a compact, open frame constructed design. All models have a single output and a wide input voltage range of 90~260VAC. These power supplies meet FCC Part-18 class B and CISPR-11 EN55011 class B emission limits. They are also designed to comply with UL/cUL (UL60601-1), TUV/T-mark (EN60601-1) and new CE requirements. This series is best suited for use in hospital instrumentation as well as many other applications. All models are 100% burn in tested.

SPECIFICATIONS: PSMBU80						
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.						
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit	
INPUT (V_{in})						
Operating Voltage Range		90		260	VAC	
Input Frequency		47		63	Hz	
Input Current (Low Line)	Io = Full Load, Vin = 115VAC			1.6	A	
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.8	A	
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		15	18	A	
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		21	25	A	
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC			0.1	mA	
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	s	
OUTPUT (V_o)						
Output Voltage		See Table				
Load Regulation	Vin = 230VAC		3	7	%	
Line Regulation	Io = Full Load		0.5	1	%	
Output Power	Vin = 90 to 260VAC	0		80	W	
Output Current Range		See Table				
Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC		0.5	1	%	
Transient Response Time	Io = Full Load to Half Load, Vin = 100VAC			4	ms	
Hold-Up Time	Io = Full Load, Vin = 110VAC	16			ms	
PROTECTION						
Over Voltage Protection		112		132	%	
Over Current Protection		110		150	%	
GENERAL						
Efficiency	Io = Full Load, Vin = 230VAC	70	80	85	%	
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	5600			VDC	
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2800			VDC	
Isolation Resistance	Test Voltage = 2100VDC	50			MΩ	
ENVIRONMENTAL						
Operating Temperature	Derate linearly from 100% Load at 50°C to 50% load at 70°C	0		+70	°C	
Storage Temperature		-40		+85	°C	
Relative Humidity		5		95	%	
Temperature Coefficient		-0.04		+0.04	%/°C	
MTBF	Operating temperature at 25°C, calculated MIL-HDBK-217F	100,000 hours				
PHYSICAL						
Weight		Approximately 300 grams				
Dimensions (L x W x H)		5.0 x 3.01 x 1.17 inches 127 x 76.5 x 29.5 mm				
Warranty		3 years				
SAFETY						
EMI Requirements for CISPR-11	Vin = 220VAC	B			Class	
EMI Requirements for FCC PART-18	Vin = 110VAC	B			Class	

OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Current	Output Voltage	Output Current	Total Regulation	Output Power
PSMBU80-102	90 ~ 260 VAC	5 VDC	14A	5%	70W
PSMBU80-103	90 ~ 260 VAC	7 VDC	11.43A	5%	80W
PSMBU80-104	90 ~ 260 VAC	9 VDC	8.89A	4%	80W
PSMBU80-105	90 ~ 260 VAC	12 VDC	6.66A	3%	80W
PSMBU80-106	90 ~ 260 VAC	15 VDC	5.33A	3%	80W
PSMBU80-107	90 ~ 260 VAC	18 VDC	4.44A	3%	80W
PSMBU80-108	90 ~ 260 VAC	24 VDC	3.33A	2%	80W
PSMBU80-109	90 ~ 260 VAC	30 VDC	2.66A	2%	80W
PSMBU80-110	90 ~ 260 VAC	36 VDC	2.22A	2%	80W

NOTES

1. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
2. Output connector mates with screw terminal (Terminal Block) (16-22AWG) or Molex housing 09-50-3121 and Molex 2478 series crimp terminal.

MECHANICAL DRAWING

Unit: mm (inches)

