

FEATURES

- Single Output
- 3 Year Warranty
- Class I Insulation
- Internal EMI Filter
- Dimensions: 4 x 2 x 1.16 Inches
- Output Voltage Protection (Crowbar Design)
- Output Voltages Available from 5VDC thru 36VDC
- Wide Input Voltage Range: 90 to 264VAC, 47 to 63Hz
- Input Surge Current, Over Voltage, and Over Load Protection



DESCRIPTION

The PSMBU30 series of AC/DC medical power supplies provides 30 Watts of continuous output power in a compact, open frame constructed design. All models have a single output and a universal input. 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: PSMBU30 Series

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.

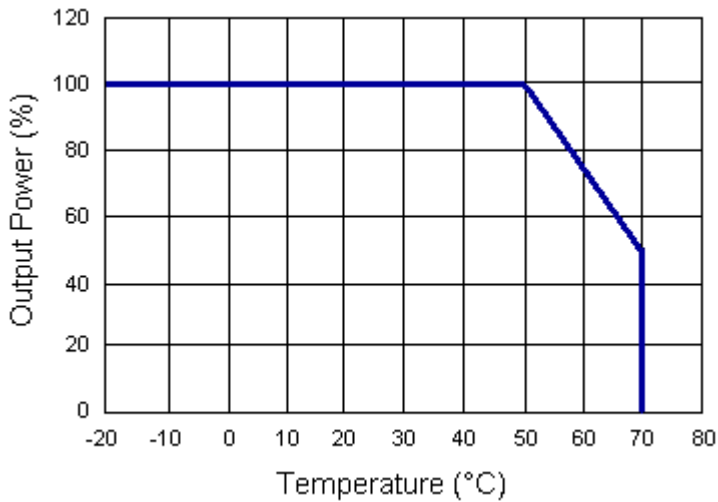
SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT (V_{in})					
Operating Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I _o = Full Load, V _{in} = 115VAC			0.7	A
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC	0.3		0.5	A
Inrush Current (Low Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 115VAC		15	18	A
Inrush Current (High Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 230VAC		21	25	A
Safety Ground Leakage Current	I _o = Full Load, V _{in} = 240VAC		0.1	0.3	mA
Start-Up Time	I _o = Full Load, V _{in} = 100VAC	0.3	1	2	s
OUTPUT (V_o)					
Output Voltage Range		See Rating Chart			
Load Regulation	V _{in} = 230VAC		3	7	%
Line Regulation	I _o = Full Load		0.5	1	%
Output Power	V _{in} = 90 to 264VAC	0		30	W
Output Current Range		See Rating Chart			
Ripple & Noise (peak to peak)	Full Load, V _{in} = 90VAC		0.5	1	%
Transient Response Time	I _o = Full Load to Half Load, V _{in} = 100VAC			4	ms
Hold-Up Time	I _o = Full Load, V _{in} = 110VAC	10	12		ms
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	I _o = Full Load, V _{in} = 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	All Outputs	-0.04		+0.04	%/°C
MTBF	Operating temperature at 25°C, Calculated per MIL-HDBK-217F	100,000 hours			
PHYSICAL					
Weight		Approximately 200 grams			
Dimensions (L x W x H)		4 x 1.99 x 1.16 inches 101.5 x 50.5 x 29.5 mm			
Warranty		3 years			
SAFETY					
EMI Requirements for CISPR-11	V _{in} = 220VAC	B			Class
EMI Requirements for FCC PART-18	V _{in} = 110VAC	B			Class

OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Preset Voltage	Output Current	Total Regulation	Maximum Output Power
PSMBU30-102	5 VDC	6.00A	5%	30W
PSMBU30-103	7 VDC	4.28A	5%	30W
PSMBU30-104	9 VDC	3.33A	5%	30W
PSMBU30-105	12 VDC	2.50A	5%	30W
PSMBU30-106	15 VDC	2.00A	5%	30W
PSMBU30-107	18 VDC	1.66A	5%	30W
PSMBU30-108	24 VDC	1.25A	5%	30W
PSMBU30-109	30 VDC	1.00A	5%	30W
PSMBU30-110	36 VDC	0.83A	5%	30W

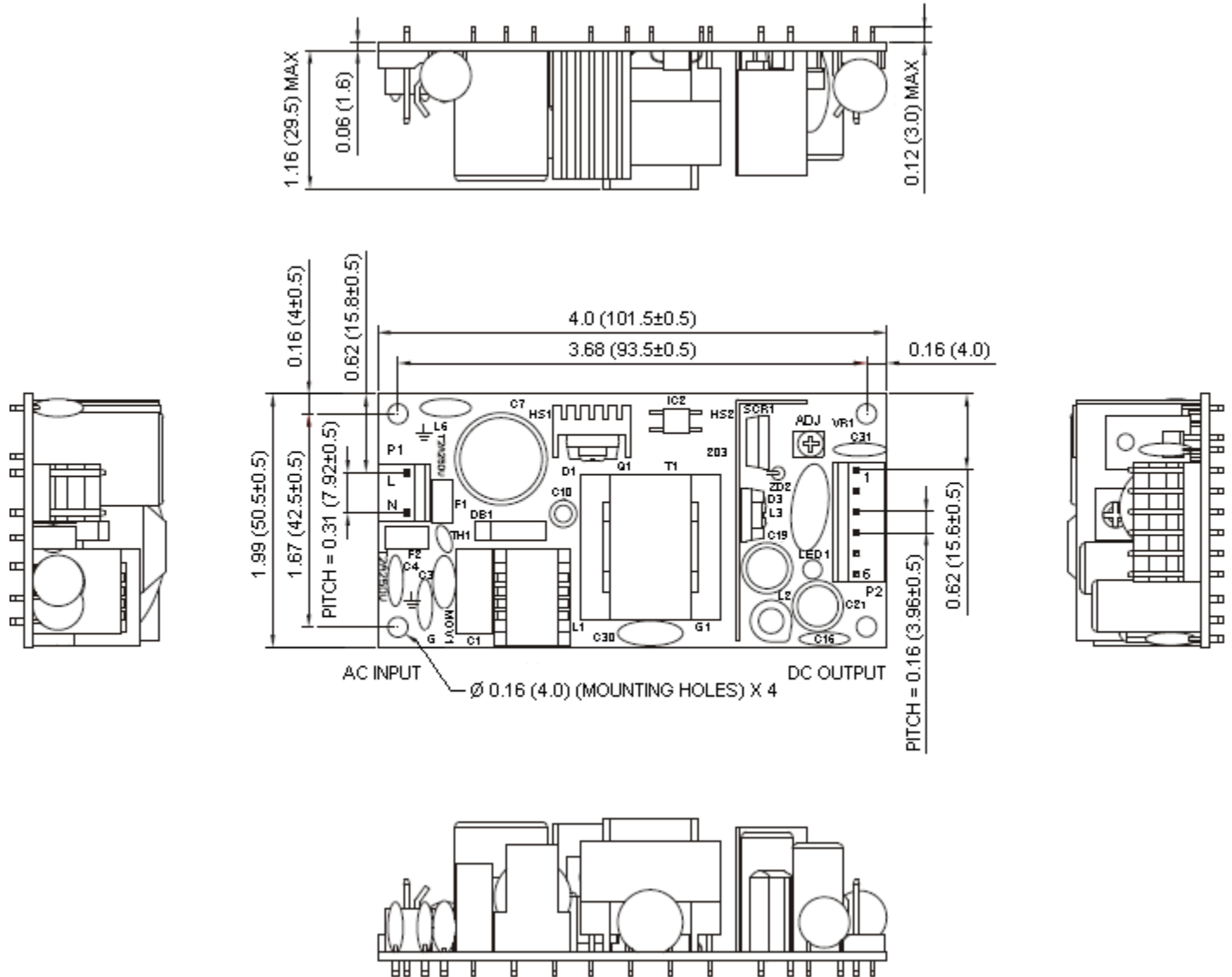
NOTES

1. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
2. Output connector mates with Molex housing 09-50-3061 and Molex 2478 series crimp terminal.

DERATING CURVE

MECHANICAL DRAWING

Unit: inches (mm)



NOTES:

1. Weight: Approximately 200 grams.
2. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
3. Output connector mates with Molex housing 09-50-3061 and Molex 2478 series crimp terminal.