



FEATURES

- Both ITE & Medical Approvals
- Medical Body Floating (BF) Rated
- Class I Power Supply

Rev A

- Altitude During Operation: ITE up to 5000m, Medical Below 3000m
- Low Leakage Current
- Wide Input Voltage Range of 90~264VAC
- Output Voltage Ranging from 5-54V
- Medical Applications Protection: Means of Patient Protection (MOPP)
- Short Circuit, Over Load, and Over Voltage
 Protection
- High Efficiency >89% (Except 5V models which are >86%)
- Meets Efficiency Level VI
- UL60601-1, EN60601-1, and IEC EN60601-1 3rd Edition Safety Approvals, among others

DESCRIPTION

The PSIM65B2 series of AC DC open frame power supplies provides up to 65 watts of output power in a 4" x 2" x 1.08" frame. This series consists of single output models that have a wide input voltage range of 90~264VAC and output voltages ranging from 5V to 54V. These models have a low leakage current and high efficiency greater than 89%. They are also Efficiency Level VI and RoHS compliant. Each model is protected against short circuit, over load, and over voltage conditions, and also has means of patient protection (MOPP). Different input and output connectors are available, please call factory for ordering details.

Size: 4in x 2in x 1.08in (101.6mm x 50.8mm x 27.5mm)

MODEL SELECTION TABLE									
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage ⁽²⁾	Output Current		Ripple & Noise ⁽³⁾		Output Regulation	Output Power	Efficiency
			Min Load	Max Load	Full Load	<30% Load	ouput regulation	Calpart ower	Emoleney
PSIM040B2-1Y050Z	90~264VAC	5V	0A	8.00A	100mV	200mV	±5%	40W	>86%
PSIM065B2-1Y120Z		12V	0A	5.42A	120mV	200mV	±3%	65W	>89%
PSIM065B2-1Y150Z		15V	0A	4.34A	120mV	300mV	±3%	65W	>89%
PSIM065B2-1Y190Z		19V	0A	3.43A	120mV	300mV	±3%	65W	>89%
PSIM065B2-1Y240Z		24V	0A	2.71A	200mV	300mV	±3%	65W	>89%
PSIM065B2-1Y280Z		28V	0A	2.33A	200mV	350mV	±3%	65W	>89%
PSIM065B2-1Y480Z		48V	0A	1.36A	200mV	480mV	±2%	65W	>89%
PSIM065B2-1Y540Z		54V	0A	1.21A	200mV	480mV	±2%	65W	>89%



SPECIFICATIONS							
	are based on 25°C, Nominal Input Voltage, and Maximum Output Curre We reserve the right to change specifications based on technological ad		herwise note	ed.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS							
Input Voltage Range		90		264	VAC		
Input Frequency		47		63	Hz		
lamath Ormani	@115VAC, Cold Start @25°C			45			
Inrush Current	@230VAC, Cold Start @25°C			90	А		
Input Current (rms)	@115VAC			2	Α		
input Current (mis)	@230VAC			1			
Touch Current	@264VAC			100	uA		
OUTPUT SPECIFICATIONS							
Output Voltage			See ⁻				
Output Power			See				
Output Current			See	Table			
Minimum Load		0			A		
Ripple & Noise (20MHz bandwidth)			See ⁻	Table			
Hold-Up Time	@Full Load, 115VAC		10		mS		
PROTECTION							
Short Circuit Protection			Automatic	Recovery			
Over Load Protection	Maximum Rating, Auto-Recovery	110		180	%		
Over Voltage Protection	Latching Type		AC Re	ecycle			
ENVIRONMENTAL SPECIFICATION	8		1				
Operating Temperature	Derate linearly 2.5% per °C from 51 to 70°C Derate linearly 1.0% per °C from 0 to -20°C	-20		70	°C		
Storage Temperature		-20		85	°C		
Humidity	Non Condensing	10		90	%		
Cooling			Conve	ection			
MTBF	@Full Load and 25°C ambient temperature	150,000			hours		
GENERAL SPECIFICATIONS							
Efficiency	@full load, 115VAC (5V series excluded)		>87		%		
No Load Power Consumption				75	mW		
PHYSICAL SPECIFICATIONS				(400.)			
Weight			4.8oz				
Dimensions (L x W x H)		(40)		x 1.08in			
SAFETY & EMC CHARACTERISTICS	N	(10)	1.6mm x 50.8	8mm x 27.5i	nm)		
SAFETT & EIVIC CHARACTERISTICS	UL 60601-1 3 rd Edition						
Safety Approvals	UL 60601-1 3 rd Edition UL/c-UL UL60950-1 EN60601-1 3 rd Edition TUV EN60950-1 IEC EN60601-1 3 rd Edition CB IEC 60950-1						
	EN60601-1-2						
	EN55024						
	EN 55011				Class		
EMC Standards	EN 55022				Class		
	FCC Part 15				Class I		
	FCC Part 18				Class E		
	CE						

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NOTES

(1) Z indicates In/Output connector options: "Z"= J (JST VH Type Connector or Equ.), Z=M (Molex 5277 Type Connector or Equ.)

(2) Output Voltage is set my manufacturer

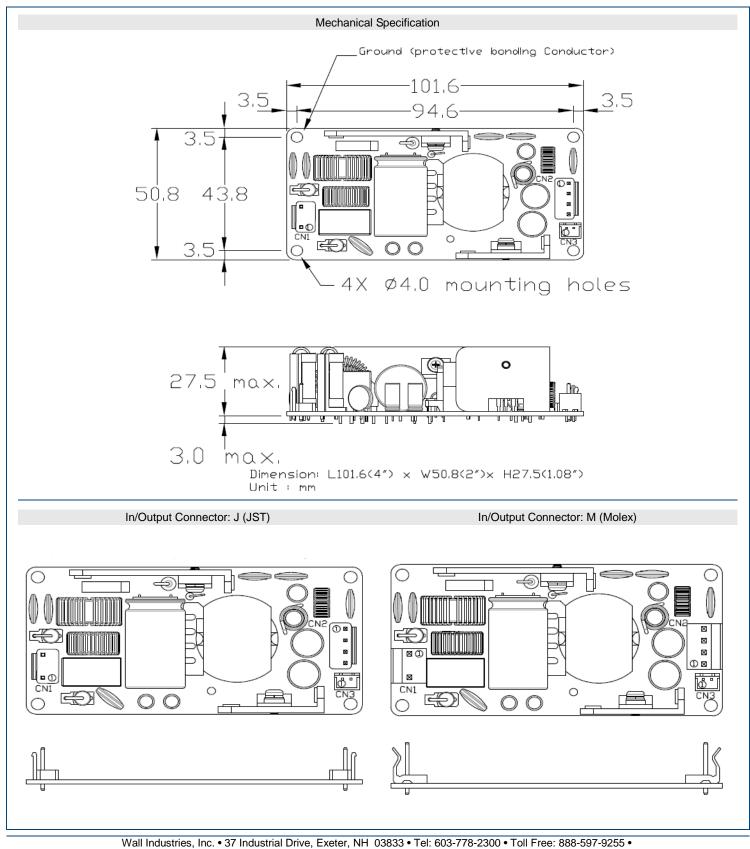
Ripple and nose are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

Ripple and noise will be higher while load is under 30% of rate load during Burst Mode operation. Burst Mode operation is to meet the latest efficiency regulations.

(3)



MECHANICAL DRAWINGS



2/22/2016

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MATCHING CONNECTORS -

JST B3P-VH-B pitch: 3.96mm or equivalent Mates with JST VHR-3N or equivalent Pin # Signal 1 AC Neutral 2 AC Line	MOLEX 5277 09-65-2029 or equivalentMOLEX 5265 09-76-1020 or equivalentPin #Signal1AC Line2AC Neutral
CN2: Main	Output Connector
JST B4P-VH-B pitch: 3.96mm or equivalent Mates with JST VHR-4N or equivalent Pin # Signal 1 GND 2 GND 3 +Vo 4 +Vo	MOLEX 5277 09-65-2048 or equivalent Mates with MOLEX 5239 09-52-4044 or equivalent Pin # Signal 1 +Vo 2 +Vo 3 GND 4 GND
CN3: Remot	e Sense Connector
	itch: 2.5mm or equivalent T XHP-2 or equivalent Signal
	+Vo Sense + +Vo Sense -

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COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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