



Size: 4.33in x 2.74in x 1.3in (110mm x 69.5mm x 33mm)

# **FEATURES**

- Input Voltage Range of 108~305VAC Over Temperature, Over Current, Over Up to 46 Watts of Output Power Voltage and Short Circuit Protection
- Built-In Active PFC Function High Efficiency
- Suitable for LED lighting applications UL8750 and UL60950 Safety Approvals

# **DESCRIPTION**

The PSB40FMA42 series of AC/DC LED drivers offers up to 46 watts of output power in a 4.33" x 2.74" x 1.3" package. This series has an input voltage range of 108~305VAC and single outputs ranging from 32V to 42V. Features of this series include high efficiency and built in active PFC function. This series has over temperature, over current, over voltage, and short circuit protection and meets UL8750 and UL60950 safety approvals. Please call factory for order details.

		MODEL SEL	ECTION TABLE			
Model Number	Input Voltage Range	Output Voltage	Rated Current	Ripple & Noise	Rated Power	Efficiency
PSB40FMA42-0850C	108~305VAC	32~42V	850mA ±5%	4.2V max.	35.7W	88% typ.
PSB40FMA42-1100C	100~303VAC	32~42V	1100mA ±5%	4.2V max.	46.0W	88% typ.
SPECIFICATIONS						
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 COI	NDITIONS	Min	тур Тур	Max Unit
INPUT SPECIFICATION	S					

SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		108		305	VAC
Normal Voltage		120		277	VAC
Frequency Range		47		63	Hz
AC Current	@120VAC/60Hz, Rated Power			0.58	Α
Inrush Current	@277VAC/60Hz (For Lighting)			30	Α
Power Factor	@277VAC/60Hz (For Lighting)	0.90			
Leakage Current	@230VAC/50Hz (For Lighting)			0.5	mA
Input THD	@277VAC/60Hz (For Lighting)			20	%Athd
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Output Power			See	Table	
Output Current			See Table		
Ripple & Noise				4.2	V
Start Up Time	@120VAC/60Hz (Lighting)		1000		mS
PROTECTION					-
Short Circuit Protection	Hiccup Mode	Recove	Recovers after fault conditions disappears		
Over Current Protection	Constant Current Limit	Recov	Recovers after fault condition is removed		
Over Voltage Protection			Constant Voltage Limit		
Over Temperature Protection	Hiccup or shut down output voltage		Recovers after fault condition disappears		
No Load Operation		No	No parts damaged on power supply		
<b>ENVIRONMENTAL SPECIFICATIO</b>	NS				
Operating Case Temperature (Tcase)		-40		90	∘C
Storage Temperature		-40		90	°C
Operating Humidity	Non-Condensing	10		90	%RH
Storage Humidity		5		90	%RH
Cooling			Free Air Convection		
Vibration	10~500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes	3			
GENERAL SPECIFICATIONS					
Efficiency	@230VAC/60Hz (Rated Power)		88		%
	I/P-O/P		4242		VDC
Withstand Voltage	I/P-FG		2121		VDC
	O/P-F/G		500		VAC
Isolation Resistance	@25°C		>100M	Ω/500VDC	



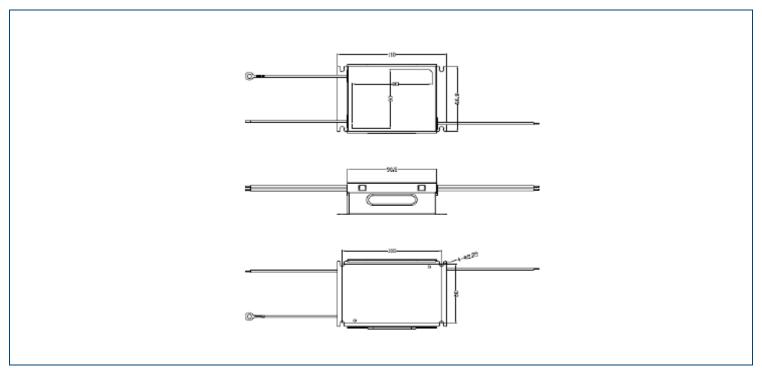
SPECIFICATIONS					
All specifications	are based on 25°C, Nominal Input Voltage, and Maximum Output Current υ	unless oth	erwise note	ed.	
	We reserve the right to change specifications based on technological adva	nces.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)		4.33in x 2.47in x 1.3in			
Differsions (L X VV X 11)		(110mm x 69.5mm x 33mm)			
Weight		10.58oz (300g)			
SAFETY					
Safety Standards			UL8750	), UL60950	
EMI Conduction and Radiation			FCC Part	t 15: Class E	3

<sup>\*</sup>Due to advances in technology, specifications subject to change without notice.

# INPUT & OUTPUT WIRES -

Port Name	Specifications Description	Length (mm)	
GROUND	GREEN,UL 1316 (Solid) 18AWG PVC (NYLON). Ring Terminal	180±15	
NEUTRAL	WHITE, UL 1316 (Solid) 18AWG PVC (NYLON)	210±15	
LINE	BLACK, UL 1316 (Solid) 18AWG PVC (NYLON)	210±15	
POSITIVE	RED, UL 1316 (Solid) 18AWG V PVC (NYLON)	180±15	
NEGATIVE	YELLOW, UL 1316 (Solid) 18AWG PVC (NYLON)	180±15	

# MECHANICAL DRAWINGS -





# 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.

Contact Wall Industries for further information:

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