



Size: 4in x 2in x 1.06in (101.6mm x 50.8mm x 27.0mm)

FEATURES

- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Single Output
- Internal EMI Filter
- 2-Pin Input Connector
- Output Voltage Available from 5VDC to 48VDC
- Short Circuit, Over Voltage, and Over Load Protection
- RoHS Compliant
- Class I Insulation
- UL/c-UL (UL 60950-1:2nd Edition), TUV/GS (EN 60950-1:2nd Edition) Safety Approvals

APPLICATIONS

- Monitor
- Industrial PC
- Set-Top Box
- AV Equipment
- CCD Recorder

DESCRIPTION

The PSSBU58 series of AC/DC switching mode power supplies provides 60 Watts of continuous output power in an open frame constructed design. This series has single output supplies with a universal input range of 90~264VAC. These units are ideally suited for use in portable equipment as well as many other applications. All models meet CISPR-22 class B emission limits and comply with new CE requirements. All models are short circuit, over voltage, and over load protected. All units are also 100% burn-in tested.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage Range	Output Current		Ripple & Noise	Total Regulation	Output Power	Efficiency
			Min Load	Max Load				
PSSBU58-102	90-264VAC	5~6VDC	6.66A	8.00A	50mVp-p	±5%	40W	77%
PSSBU58-103		6~8VDC	6.00A	8.00A	60mVp-p	±5%	48W	77%
PSSBU58-104		8~11VDC	5.00A	6.87A	100mVp-p	±5%	55W	83%
PSSBU58-105		11~13VDC	4.61A	5.45A	100mVp-p	±5%	60W	83%
PSSBU58-106		13~16VDC	3.75A	4.61A	100mVp-p	±5%	60W	83%
PSSBU58-107		16~21VDC	2.85A	3.75A	100mVp-p	±5%	60W	83%
PSSBU58-108		21~27VDC	2.22A	2.85A	100mVp-p	±3%	60W	84%
PSSBU58-109		27~33VDC	1.81A	2.22A	100mVp-p	±3%	60W	84%
PSSBU58-110		33~40VDC	1.50A	1.81A	100mVp-p	±3%	60W	84%
PSSBU58-111		40~48VDC	1.25A	1.50A	100mVp-p	±2%	60W	85%

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 CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	Safety Approval Range	100		240	VAC
	Operate Voltage Range	90		264	VAC
Input Frequency	Sine Wave	47		63	Hz
Input Current	Low Line, Full Load, Vin=100VAC			1.6	A
	High Line, Full Load, Vin=240VAC			1.6	
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			30	A
	High Line, Full Load, 25°C, Cool Start, Vin=240VAC			60	
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			60	A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation ⁽³⁾	Vin=100~120VAC	0.5		1	%
Load Regulation ⁽⁴⁾	Vin=230VAC, 10~90% Load Change at Condition	2		5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽⁵⁾		See Table			
Transient Response Time	Full Load, Vin=110VAC			4	mS
Hold-Up Time	Full Load, Vin=100VAC		12		mS
Start-Up Time	Full Load, Vin=100~240VAC			2	S
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C

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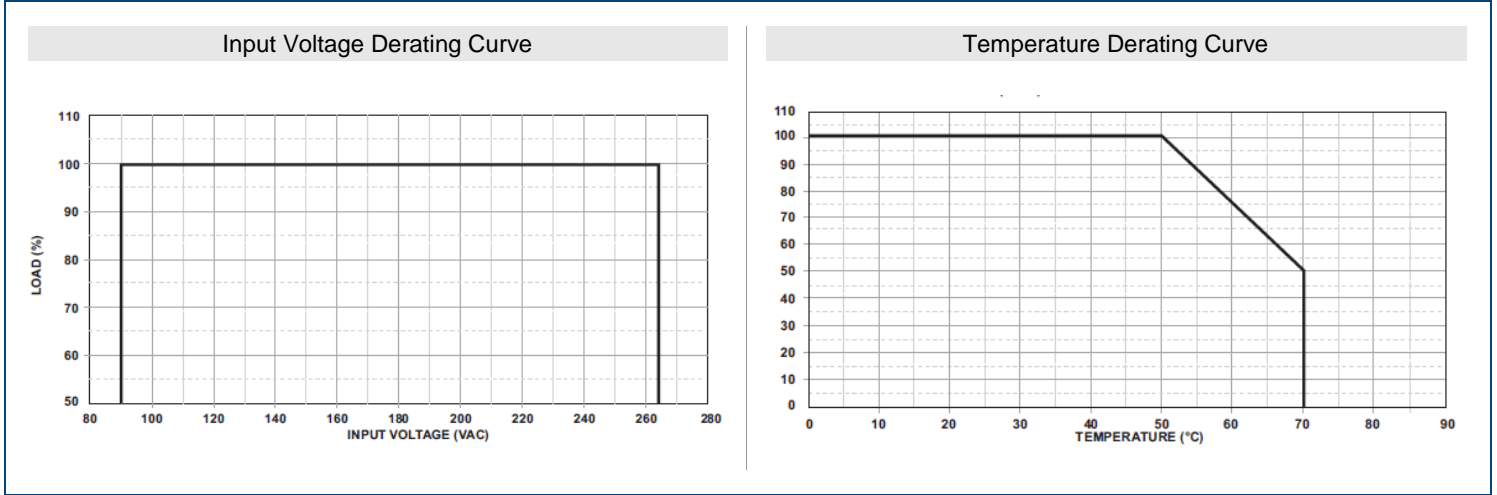
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Load Protection	Recovers automatically after fault condition is removed.	110		150	%
Over Voltage Protection		112		132	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derate linearly from 100% load at 50°C to 50% load at 70°C	0		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95	%RH
Storage Humidity		0		95	%RH
Operating Altitude	All Conditions			2000	m
Vibration	10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
MTBF	Operating Temperature at 25°C, per MIL-HDBK-217F	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC
	Primary to PE			2718	
No Load Consumption			0.5		W
PHYSICAL SPECIFICATIONS					
Weight		4.94oz (140g)			
Dimensions (L x W x H)		4in x 2in x 1.06in (101.6mm x 50.8mm x 27.0mm)			
Cooling		Free Air Convection			
Flammability Rating		UL94V-1			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/c-UL (UL60950-1:2 nd Edition) TUV/GS (EN60950-1:2 nd Edition)				
EMC Emission	Compliance to EN55022 (CISPR)	Class B			
Electrostatic Discharge	Air Discharge, IEC61000-4-2			8	kV
	Contact Discharge, IEC61000-4-2			6	
Surge Voltage	Line-Neutral			1	kV
	Line-PE & Neutral-PE			2	
Protection Classes		Class I			
Surge					
Conducted Immunity					

NOTES

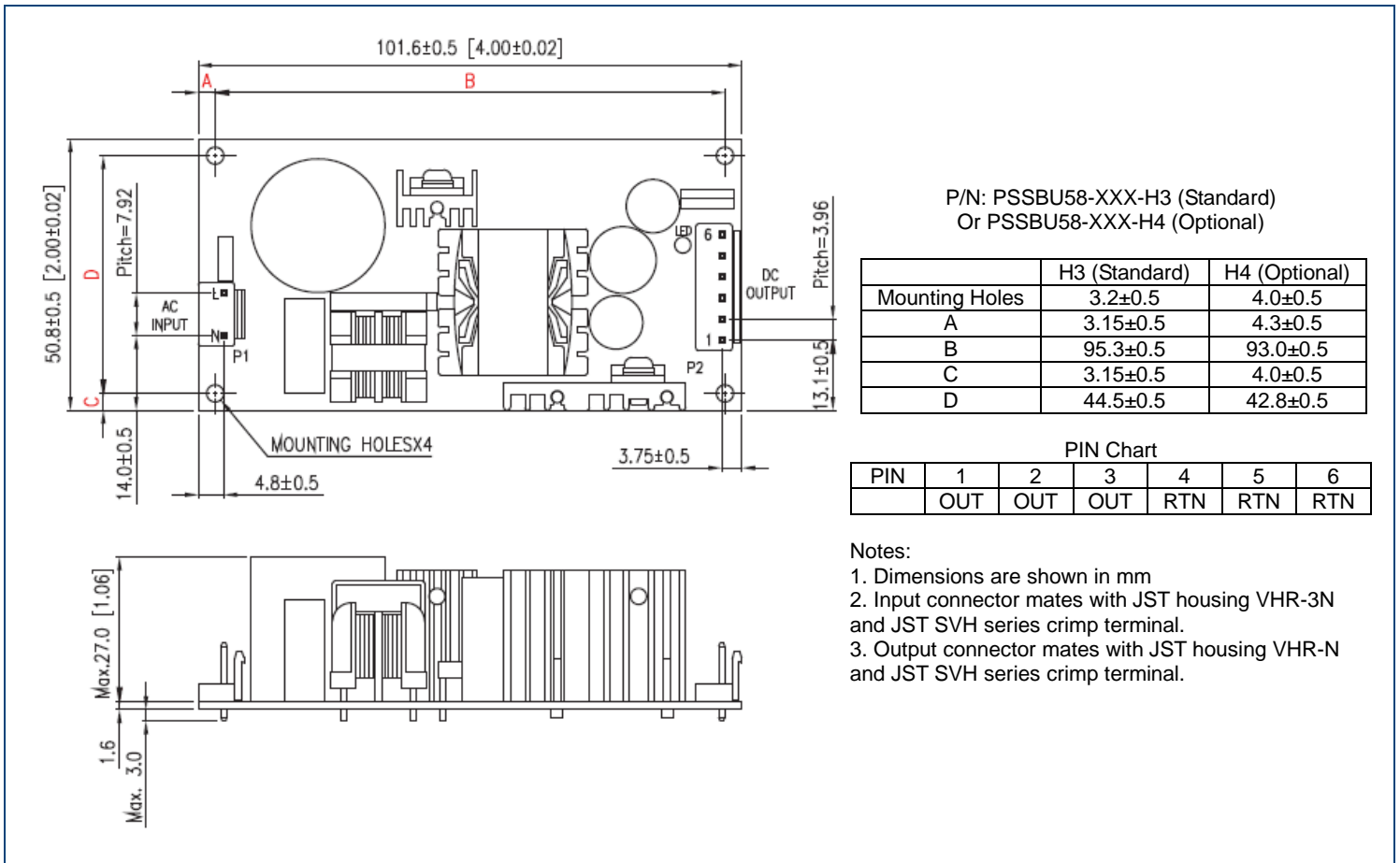
- Output can provide up to peak load when power supply starts up. Staying in more than rated load continuously is prohibited.
- Each output is checked to be within voltage accuracy in 60% rated load condition at factory.
- Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- Ripple & Noise is measured by using is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at a rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.

**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES



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.

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