



Size:

7.83 x 3.90 x 1.97 inches 199.0 x 99.0 x 50.0 mm

Weight:

2.1 lbs (950g)

FEATURES

- 200 Watts Output Power
- 3000VAC I/O Isolation
- High Efficiency up to 87.5%
- 100% Full Load Burn-in Test
- Built-in Cooling Fan Speed
- Adjustable Output Voltage

- · Conformal Coating on Both Sides of PCB
- -25°C to +70°C Wide Operating Temperature Range
- All Using 105°C Long Life Electrolytic Capacitors
- Operating Altitude up to 5000M Withstand 300VAC Surge Input for 5 Sec.
 - Universal Input Voltage Range: 85-264VAC (120-370VDC)
 - Over Load, Over Power, and Short Circuit Protection
- Built-in Active PFC, PF > 0.95
 UL60950-1 2nd edition (pending), IEC60950-1:2005 (2nd edition), EN60950-1:2006 Safety Approvals

DESCRIPTION

The PSGKF-200 series of AC/DC switching power supplies provides 200 Watts of output power in a 7.83" x 3.90" x 1.97" enclosed case with built-in cooling fan speed control. This series consists of 5V, 12V, 24V, 36V, and 48VDC single output models with an input voltage range of 85~264VAC (120~370VDC). Some features include high efficiency up to 87.5%, built-in active PFC, and -25°C to +70°C operating temperature range. This series also has short circuit, over load, and over power protection. All models have IEC60950-1:2005 (2nd edition), EN60950-1:2006, and pending UL60950-1 (2nd edition) safety approvals.

MODEL SELECTION TABLE								
Model Number	Input Voltage	Output Voltage	Output Current		Ripple & Noise	Output Power	Efficiency	
	Range		Min	Max	(1)	Output i owei	Lilloidilloy	
PSGKF-200-5	85 ~ 264 VAC (120 ~ 370 VDC)	5 VDC	0A	40A	<150mVp-p	200W	79%	
PSGKF-200-12		12 VDC	0A	16.7A	<150mVp-p	200W	84%	
PSGKF-200-24		24 VDC	0A	8.4A	<200mVp-p	201.6W	86%	
PSGKF-200-36		36 VDC	0A	5.6A	<200mVp-p	201.6W	86.5%	
PSGKF-200-48		48 VDC	0A	4.2A	<200mVp-p	201.6W	87.5%	

SPECIFICATIONS: PSGKF-200 SERIES

All specifications are based on 25°C Ambient Temperature, Rated Input, and Rated Load unless otherwise noted. We reserve the right to change specifications based on technological advances.

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SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS						
Input Voltage	AC input voltage range	85		264	VAC	
	DC input voltage range	120		370	VDC	
Input Frequency		47		63	Hz	
AC Current				3.5	Α	
Inrush Current	At 115VAC and cold start			30	Α	
	At 230VAC and cold start			50	A	
Power Factor	At 115VAC	0.98				
	At 230VAC	0.95				
OUTPUT SPECIFICATIONS						
Output Voltage		See Table				
Voltage Accuracy		-1.0		+1.0	%	
Voltage Adjustability		-5		+10	%Vo	
Line Regulation		-0.5		+0.5	%	
Load Regulation		-1.0		+1.0	%	
Output Power		See Table				
Output Current		See Table				
Ripple & Noise	Measured at 20MHz BW and with 0.1µF and 47µF capacitors in parallel	See Table				
Hold-up Time	At 230VAC and full load		≥10		ms	
Setup Time	At 230VAC and full load		≤2		s	
Temperature Coefficient		-0.03		+0.03	%/°C	
Overshoot and Undershoot				5.0	%	
PROTECTION						
Short Circuit Protection	Long term mode, auto-recove			very		
Over Power Protection	Hiccup mode, automatic-recovery	105		150	%Po	
Over Load Protection	Hiccup mode, automatic-recovery	105		150	%lo	



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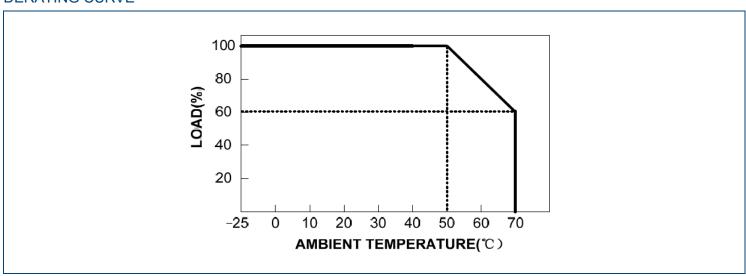
SPECIFICATION	TEST CONDITIONS		Min	Тур	Max	Unit		
GENERAL SPECIFICATIONS								
Efficiency		See Table						
	Primary to Secondary ≤ 10mA		3000			VAC		
Withstand Voltage	Primary to PG ≤ 10mA		1500			VAC		
	Secondary to PG	≤ 10mA	500			VDC		
solation Resistance				≥100		ΜΩ		
Leakage Current	Input to Output Input to PG				0.25	mA		
Leakage Current					1.0	IIIA		
ENVIRONMENTAL SPECIFIC	CATIONS							
Operating Temperature	See derating curve				+70	°C		
Storage Temperature					+85	°C		
Operating Humidity	erating Humidity Non-condensing				90	% RH		
Storage Humidity	Non-condensing				95	% RH		
Cooling	Built-in DC fan			Cooling by forced air				
MTBF	MIL-HDBK-217F; 25°C and full load					hours		
Vibration	10~150Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes							
PHYSICAL SPECIFICATIONS								
Weight	2.1 lbs (950g)							
Dimensions (L x W x H)			7.83 x 3.90 x 1.97 inches					
Differsions (E X VV X 11)				(199.0 x 99.0 x 50.0 mm)				
Packing				12pcs/ctn, 11.4kg, 0.04CBM				
SAFETY & EMI (See Note 2)								
Safety Approvals	UL60950-1 2nd edition ⁽³⁾ , IEC60950-1:2005 (2nd edition), EN60950-1:2006							
Conduction & Radiation	Compliance to EN55022 Class B							
Harmonic Current	Compliance to EN61000-3-2 Class D							
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level							

NOTES

- 1. Ripple & noise is measured at 20MHz limited bandwidth and using a 12" twisted pair-wire terminated with a 0.1μF & 47μF capacitors in parallel.
- 2. The power supply is considered a component which will be installed into final equipment. The final equipment must be reconfirmed that it still meets EMC directives.
- 3. This product is Listed to applicable standards and requirements by UL.

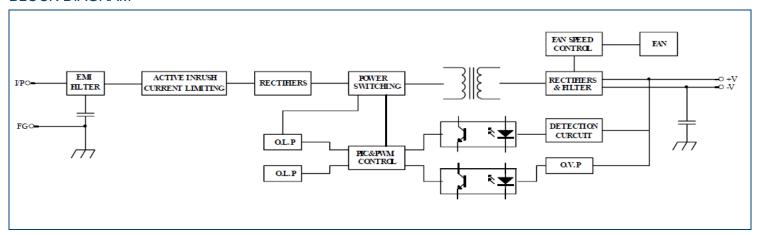
*Due to advances in technology, specifications subject to change without notice.

DERATING CURVE •

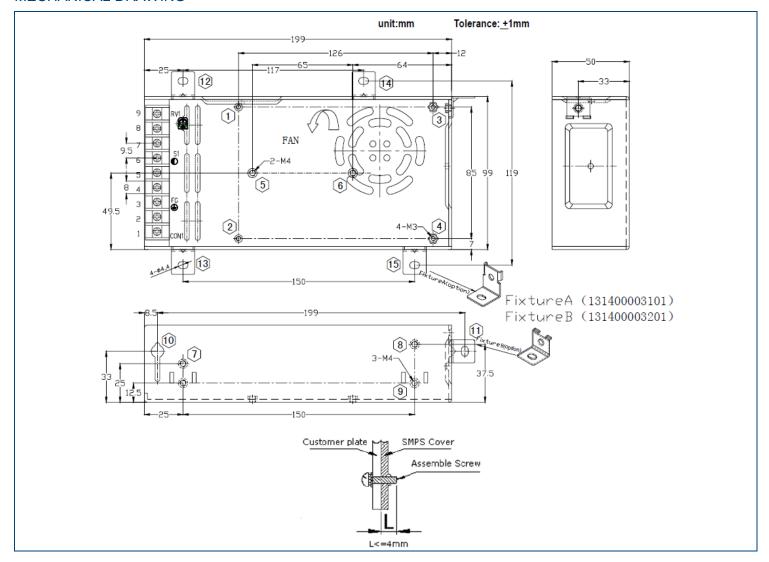




BLOCK DIAGRAM -



MECHANICAL DRAWING





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: 2015 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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