### AC/DC 150W Enclosed Switching Power Supply Scries SLM150-22Bxx Series





#### **FEATURES**

- Universal 165 264VAC or 180 373VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -30°C +70°C
- Low standby power consumption, high efficiency
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Safety according to IEC/EN/UL62368/EN60335/GB4943 (CE/CCC pending)
- Withstand 300VAC surge input for 5s
- Over-voltage class III (designed to meet EN61558)
- Operating up to 5000m altitude

SLM150-22Bxx series is one of SCHMID-M's enclosed AC-DC switching power supply. It features universal AC input and at the same time accepts DC input voltage, cost-effective, low no load power consumption, high efficiency and high reliability. These converters offer excellent EMC performance and meet IEC/EN61000-4, CISPR32/EN55032, IEC62368, UL62368, EN62368, EN60335, GB4943 standards and they are widely used in Industrial, LED, street light control, electricity, security, telecommunications, smart home etc.

Selection						
Certification	Part No.	Output Power(W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range(V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (µF)
CE/CCC (Pending)	SLM150-22B12	150	12V/12.5A	10.2-13.8	86	10000
	SLM150-22B15	150	15V/10A	13.5-18.0	87	6000
	SLM150-22B24	156	24V/6.5A	21.6-28.8	88	2500
	SLM150-22B36	154.8	36V/4.3A	32.4-39.6	88	1000
	SLM150-22B48	158.4	48V/3.3A	43.2-52.8	89	600

Input Specifications								
Item	Operating Conditions			Тур.	Max.	Unit		
Innert Voltage Days are	AC input	AC input			264	VAC		
Input Voltage Range	DC input	DC input			373	VDC		
Input Voltage Frequency	су				63	Hz		
Input Current 230VAC					2			
Inrush Current	230VAC Cold start			60	_	Α		
Hot Plug				Unavailable				

Output Specifications							
Item	Operating Conditions		Min.	Тур.	Max.	Unit	
Output Voltage Accuracy	Full load range			±1			
Line Regulation	Rated load		-	±0.5		%	
Load Regulation	0% - 100% load		-	±0.5			
Outrant Diamera O Nation	20MHz bandwidth	12V/15V		150		mV	
Output Ripple & Noise*	(peak-to-peak value)	24V/36V/48V		200			
Temperature Coefficient				±0.03		%/℃	
Minimum Load			0			%	
Stand-by Power Consumption			-		0.5	W	

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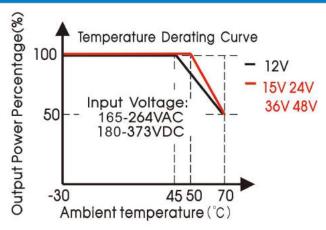
230VAC	16			ms	
Recovery time is less than 5s after the short circuit disappear.	Hiccup, continuous, self-recovery			covery	
	110%-200% lo, self-recove				
12V	≤ 16VDC (Output voltage turn			turn off)	
15V	≤ 25VDC (Output voltage turn o			turn off)	
24V	≤ 35VDC (Output voltage turn			turn off)	
36V	≤ 50VDC (Output voltage turn off)				
48V	≤ 60VDC (Output voltage turn off			turn off)	
	Recovery time is less than 5s after the short circuit disappear.  12V 15V 24V 36V	Recovery time is less than 5s after the short circuit disappear.       Hiccu         110       12V       ≤ 16V         15V       ≤ 25V         24V       ≤ 35V         36V       ≤ 50V	Recovery time is less than 5s after the short circuit disappear.  Hiccup, continue  110%-200% lo  12V  \$\leq\$ 16VDC (Output)  24V  \$\leq\$ 35VDC (Output)  36V  \$\leq\$ 50VDC (Output)	Recovery time is less than 5s after the short circuit disappear.  Hiccup, continuous, self-recovers 110%-200% lo, self-recovers 15V  15V  24V  36V  Hiccup, continuous, self-recovers 110%-200% lo, self-recovers 12V  \$\leq\$ 16VDC (Output voltage 15V)  \$\leq\$ 25VDC (Output voltage 15V)  \$\leq\$ 35VDC (Output voltage 15V)  \$\leq\$ 50VDC (Output voltage 15V)	

Genero	al Specificat	tions						
Item		Operating Conditions			Min.	Тур.	Max.	Unit
Isolation Test	Input - <del></del>	Electric strength test for 1min., leakage current <10mA			2000			VAC
	Input-output				4000		-	
1001	output - <del></del>							
Insulation	Input - 🖶						-	
Resistanc	Input - output	At 500VDC			50			MΩ
е	output -=							
Operating	Temperature				-30		+70	°C
Storage Ter	mperature				-40		+85	
Storage Hu	ımidity	Non-condensing					95	%RH
Switching F	requency					65		kHz
Power Derating		Operating temperature derating	12V output	<b>+45</b> ℃to <b>+70</b> ℃	2.0			%/℃
		Input voltage derating	other output	<b>+50℃to +70℃</b>	2.5			
Safety Standard					Meet IEC	/EN/UL623	68/EN6033	5/GB4943
Safety Class					CLASS I			
MTBF					MIL-HDBK-217F@25℃ >300,000 h			

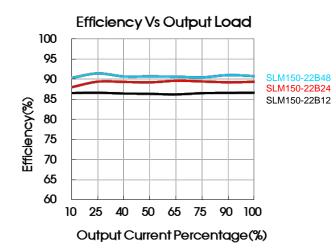
Mechanical Specifications					
Case Material	Metal (AL1100, SGCC)				
Dimensions	159.00 x 97.00 x 30.00 mm				
Weight	420g (Typ.)				
Cooling Method	Free air convection				

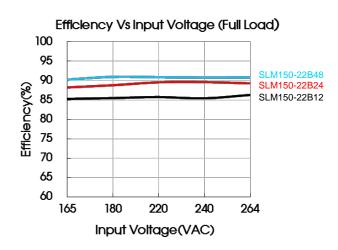
Electromagnetic Compatibility (EMC)							
ЕМІ	CE	CISPR32/EN55032 CLASS B					
	RE	CISPR32/EN55032 CLASS B					
	ESD	IEC/EN 61000-4-2 Contact ±6KV /Air ±8KV	Perf. Criteria A				
	RS	IEC/EN 61000-4-3 10V/m	perf. Criteria A				
EMS	EFT	IEC/EN 61000-4-4 ±4KV	perf. Criteria A				
EIVIO	Surge	IEC/EN 61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A				
	CS	IEC/EN61000-4-6 10 Vr.m.s	perf. Criteria A				
	DIP	IEC/EN61000-4-11 0%, 70%	perf. Criteria B				

#### **Product Characteristic Curve**

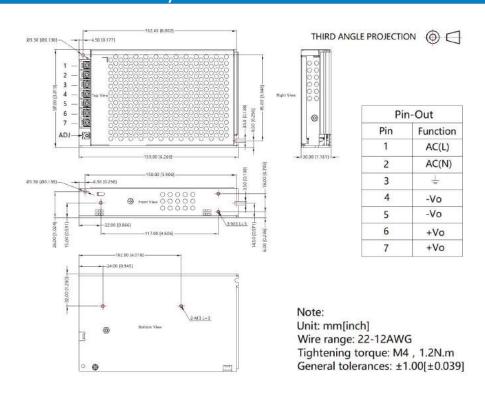


Note: This product is suitable for applications using natural air cooling; for applications in closed environment please consult SCHMID-M FAE.





### **Dimensions and Recommended Layout**



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SLM150-22Bxx Series

#### Note:

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated output load;
- 2. The ambient temperature derating of  $5\,^\circ\!\!\!\!\mathrm{C}/1000m$  is needed for operating altitude greater than 2000m;
- 3. All index testing methods in this datasheet are based on our company corporate standards;
- 4. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability;
- 5. We can provide product customization service, please contact our technicians directly for specific information;
- 6. Products are related to laws and regulations: see "Features" and "EMC";
- 7. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

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