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AC/DC Converter SLI240-10Bxx Series





240W, AC/DC converter



FEATURES

- Wide input voltage range: 85~264VAC/120~370VDC
- Active PFC
- Input under-voltage protection, output short circuit, over-current, over-voltage, overtemperature protections
- Meets IEC60950, UL60950, EN60950 standards

SLI240-10Bxx series—240W converter offered by SCHMID-M. It features Cost-effective, standard rail mounting, energy efficient, EMC and Safety specifications meet the international IEC61000, UL60950 and EN60950 standards. This series of products can be used in industrial control equipment, machinery, railway transport etc.

Selection Guide					
Certification	Part No.	Output Power	Nominal Output Voltage and Current(Vo/Io)	Efficiency (230VAC, %/Typ.)	Max. Capacitive Load(µF)
UL/CE	SLI240-10B24	240W	24V/10A	92	4700

Input Specifica	itions					
Item		Operating Conditions	Min.	Тур.	Max.	Unit
Input Voltage Range		AC input	85		264	VAC
		DC input	120		370	VDC
Input Frequency			47	-	63	Hz
Input Current		115VAC		-	3.0	А
		230VAC		-	1.5	
Inrush Current		115VAC		30	_	
		230VAC		60	-	
Power Factor		115VAC	-	0.98	-	
		230VAC		0.96		_
Input Under-voltage	Start-up Voltage	AC input	75		83	,,
Protection	Shutdown Voltage	AC input	67		74	VAC
Hot Plug				Unav	ailable	

Output Specifications						
Item	Operating Conditions	Min.	Тур.	Max.	Unit	
Output Voltage Range	Rated max Output Power 240W	24	1~28 Adjustal	ole	V	
Output Voltage Accuracy				±1		
Line Regulation	Full load			±0.5	%	
Load Regulation	5%-100% load			±1		
Ripple & Noise*	20MHz bandwidth (peak-peak value)			100	mV	
Temperature Coefficient			±0.03	-	%/℃	
Stand-by Power Consumption			1.0	-	W	
Short Circuit Protection			Continuous,	self-recovery	,	
Over-current Protection			110-150% lo,	self-recovery	,	
Over-voltage Protection	oltage Protection Continuous automatic restart u over-voltage condition is rem					
Over-temperature Protection				output voltag ire, self-recov		
Min. Load		0		_	%	

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AC/DC Converter

SLI240-10Bxx Series

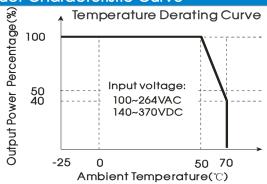
Start-up Time				1500	
	115VAC input		22	_	ms
Hold-up Time	230VAC input		22	_	
Note: * Ripple and noise are measured by "rely test" method, please see AC-DC Converter Application Notes for specific operation.					

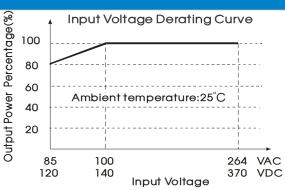
General Spe	cifications					
ltem .		Operating Conditions	Min.	Тур.	Max.	Unit
	Input-output	Test time: 1min	3000	-	_	VAC
Isolation Voltage	Input- 🖶		1500	-	_	
	Output- 🖶		500	-	_	
Operating Temperature			-25	_	+70	°C
Storage Temperature			-25	-	+85	C
Storage Humidity			_	-	95	%RH
Switching Frequency			_	100	_	KHz
Power Derating		+50℃ to +70℃	3.0	-	_	%/℃
Safety Standard			IEC60950/EN	IEC60950/EN60950/UL60950		
Safety Certification			EN60950/UL	EN60950/UL60950		
Safety Class			CLASS I	CLASSI		
MTBF			MIL-HDBK-2	MIL-HDBK-217F@25°C > 300,000 h		

Physical Specifications			
Casing Material	heat-resistant plastic (UL94-V0) and metal		
Dimension	60.00*125.00*120.00 mm (W*H*D)		
Weight	820(Typ.)±20 g		
Cooling Method	Free convection		

EMC S	pecifications		
EMI	CE	CISPR22/EN55022, CLASS B	
CIVII	RE	CISPR22/EN55022, CLASS B	
	ESD	IEC/EN61000-4-2 Contact ±6KV/Air ±8KV	Perf. Criteria B
	RS	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4 ±4KV	perf. Criteria B
EMS	Surge	IEC/EN61000-4-5 ±2KV/±4KV	perf. Criteria B
LIVIS	CS	IEC/EN61000-4-6 10 Vr.m.s	perf. Criteria A
	PFM	IEC/EN61000-4-8 10A/m	perf. Criteria A
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11 0%-70%	perf. Criteria B

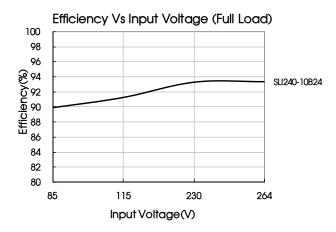
Product Characteristic Curve

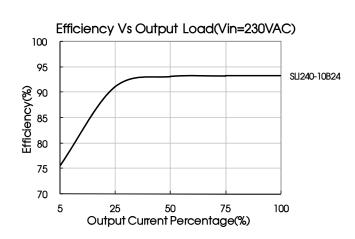




Note: \bigcirc Input voltage should be derated based on temperature derating when it is 85-100VAC/120-140VDC;

©This product is suitable for use in natural air cooling environments, if in a closed environment, please contact our company's FAE.





Design Reference

1. Typical application circuit

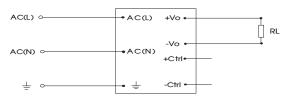


Fig. 1: Typical application circuit

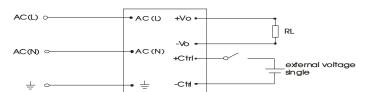


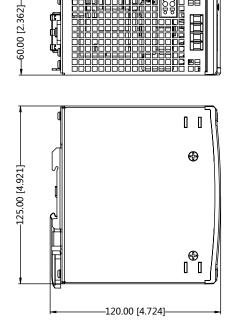
Fig. 2: Remote control Applications circuit Note: external voltage single range 4.5 \sim 12.5VDC realize the power off, the single disappears and recovery

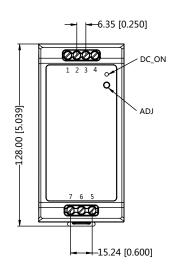
THIRD ANGLE PROJECTION

Dimensions and Recommended Layout

CTRL+

CŢRL-





PIN CONNECTION		
Pin	Function	
1	+Vo	
2	+Vo	
3	-Vo	
4	-Vo	
5	AC(N)	
6	AC(L)	
7	Ť	

Note: Unit:mm[inch] General tolerances:±1.00[±0.040] Wire range:26~10AWG Installed on DIN RAIL TS35

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Notes:

- 1. Packing bag number: 58220024;
- 2. If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
- 3. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25 °C, humidity<75% with nominal input voltage and rated output load;
- 4. All index testing methods in this datasheet are based on our Company's corporate standards;
- 5. The performance parameters of the product models listed in this manual are as above, but some parameters of non-standard model products may exceed the requirements mentioned above. Please contact our technicians directly for specific information;
- 6. We can provide product customization service;
- 7. Specifications are subject to change without prior notice.

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