AC/DC Converter SLI60-20BxxPR2 Series



60W, AC/DC DIN-Rail Power Supply







RoHS

FEATURES

- Universal 85-264VAC or 120-370VDC input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40℃ to +70℃
- High I/O isolation test voltage up to 4000VAC
- Industrial product technology design
- Over-voltage class III (Designed to meet EN61558 safety standards)
- Low standby power consumption, high efficiency
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Withstand 300VAC surge input for 5s
- EN62368 safety approved

SLI60-20BxxPR2 is SCHMID-M's AC-DC series featuring a cost-effective, energy efficient solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise, compliant with international IEC62368 standards for EMC are safety approved to IEC/EN61000-4, CISPR32, EN55032, UL62368, IEC62368 and EN62368. These light weight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control equipment machinery and all kinds of applications in a harsh environment.

Selection	Guide					
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range(V) (50% load)	Efficiency at 230VAC (%) Typ.	Capacitive Load (µF)Max.
	SLI60-20B05PR2	33	5V/6.5A	4.9-5.5	84	20000
	SLI60-20B12PR2	54	12V/4.5A	10.8-13.8	88	10000
CE	SLI60-20B15PR2	60	15V/4.0A	13.5-18.0	89	8000
	SLI60-20B24PR2	60	24V/2.5A	21.6-29.0	90	4000
	SLI60-20B48PR2	60	48V/1.25A	43.2-55.2	91	680

Input Specifications						
Item	Operating Conditions	Min.	Тур.	Max.	Unit	
In and Malker on Develop	AC input	85		264	VAC	
Input Voltage Range	DC input	120		370	VDC	
Input Frequency		47		63	Hz	
	115VAC			1.2		
Input Current	230VAC			0.8		
	115VAC		30		Α	
Inrush Current	230VAC		60		1	
Leakage Current	264VAC		0.25mA RM	MS max.		
Hot Plug			Unavai	lable		

Output Specifications							
Item	Operating Conditions		Min.	Тур.	Max.	Unit	
Output Voltage Accuracy	0% - 100% load	0% - 100% load		±2			
Line Regulation	Rated load	Rated load			-	%	
Load Regulation	230VAC			±1.5	-		
		5V Output		_	100		
		12V Output		_	120		
Output Ripple & Noise*	20MHz bandwidth	15V Output		_	120	mV	
	(peak-to-peak value) 24V Output	_	150				
		48V Output		_	240		
Temperature Coefficient				±0.02	_	%/°C	

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	230VAC input	5V/12V/15V/24V Output			0.3	
Stand-by Power Consumption		48V Output		0.4	W	
Short Circuit Protection			Hiccup, continuous, self-recovery			
Over-current Protection			≥ 120%lo, self-recovery			
	5V Output		≤7.5V (Output voltage clamp or hiccup)			
	12V Output		≤16V (Output voltage clamp or hiccup)			
Over-voltage Protection	15V Output	≤20V (Output voltage clamp or hiccup)				
-	24V Output		≤36V (Output voltage clamp or hiccup)			
	48V Output		≤60V (Output voltage clamp or hiccup)			
Minimum Load			0			%
Start-up Delay Time			-		3	s
	115VAC 230VAC			15		
Hold-up Time				80		ms

General Sp	ecifications						
Item			Operating Conditions		Тур.	Max.	Unit
Isolation Test	Input - Output	Electric Strength To (leakage current<		4000			VAC
Operating Tempe	erature			-40	-	+70	C
Storage Tempera	ture			-40		+85	
Storage Humidity						95	%RH
Operating Altitud	le					2000	m
Switching Frequency					65	-	kHz
			5V/12V/48V Output	3.0			
		-40℃ to -30℃	24V Output	7.0			%/℃
Power Derating			15V Output	8.0			
_		+45℃ to +70℃		2.0			7
		85VAC - 100VAC		1.0			%/VAC
Safety Standard				UL62368/EN62368/IEC62368			
Safety Certification				EN62368			
Safety Class				CLASS II			
MTBF		MIL-HDBK-217F@25℃		>300,000 h			

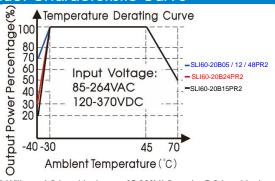
Mechanical Specifications		
Case Material	Plastic, heat-resistant (UL94V-0)	
Package Dimensions	92.66 x 52.00 x 58.00 mm	
Weight	175g (Typ.)	
Cooling method	Free air convection	

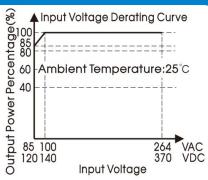
Electromo	agnetic Compatibility (EMC	()		
Freissland	CE	CISPR32/EN55032	CLASS B	
Emissions	RE	CISPR32/EN55032	CLASS B	
	ESD	IEC/EN61000-4-2	Contact ±6KV/ Air ±8KV	Perf. Criteria A
	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4	±2KV	perf. Criteria A
Immunity	Surge	IEC/EN61000-4-5	line to line ±2KV	perf. Criteria A
	CS	IEC/EN61000-4-6	10Vr.m.s	perf. Criteria A
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11	0%, 70%	perf. Criteria A

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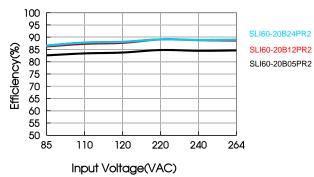
Product Characteristic Curve

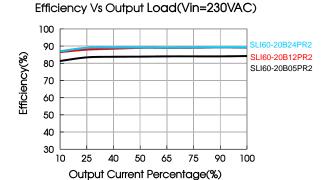




Note: ① With an AC input between 85-100VAC and a DC input between 120-140VDC, the output power must be derated as per temperature derating curves; 2 This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.

Efficiency Vs Input Voltage (Full Load)

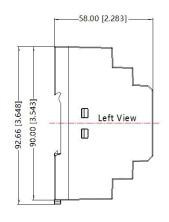


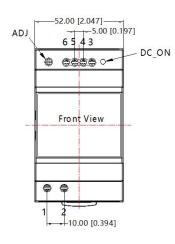


Dimensions and Recommended Layout

THIRD ANGLE PROJECTION (







Pi	n-Out
Pin	LI60-20B
1	AC(L)
2	AC(N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo

Note:

Unit: mm[inch]

ADJ: adjustable resistance to change

output voltage

Wire range: 24-12 AWG Tightening torque: Max 0.4 N·m

Mounting rail: TS35

General tolerances: $\pm 1.00[\pm 0.039]$

Note:

- 1. 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;
- 2. All index testing methods in this datasheet are based on our company corporate standards;
- 3. We can provide product customization service, please contact our technicians directly for specific information;
- 4. Specifications are subject to change without prior notice.
- 5. Products are related to laws and regulations: see "Features" and "EMC";
- 6. 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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