AC/DC 75W Enclosed Switching Power Supply SLI75-20BxxR2 Series SLI75-20BxxR2 Series





DIN rail TS-35/7.5 or 15 mountable



FEATURES

- Universal 90 264VAC or 120 373VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -30°C to +70°C
- The efficiency is up to 90%
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage, over-temperature protection
- Ultra slim design with 30mm width: suitable for small chassis and narrow space installation
- Withstand 300VAC surge input for 5S
- CISPR32/EN55032 Class B compliant
- Operating altitude up to 5000m
- Meets regulates for harmonic current(IEC61000-3-2), available for lighting application
- Safety according to IEC/EN/UL62368, IEC/EN/UL60335, GB4943, UL508

SIJ5-20BxxR2 is SCHMID-M AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. These light weight AC-DC converters have an extremely compact design and the standard rail (30mm) installation for space saving. With good EMC performance, compliant with international IEC/EN/UL62368, IEC/EN/UL60335, GB4943, UL508 standards for EMC and safety.

Selection Guide						
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)
	SLI75-20B12R2		12V/6.3A	12-14	86	6000
CE	SL175-20B24R2	75	24V/3.2A	24-28	89	1500
	SLI75-20B48R2		48V/1.6A	48-53	90	1000

Input Specifications						
Item	Operating Conditions			Тур.	Max.	Unit
	AC input				264	VAC
Input Voltage Range	DC input				373	VDC
Input Voltage Frequency			47		63	Hz
la	115VAC			2		
Input Current	230VAC				1	
1	115VAC			25	-	A
Inrush Current	230VAC	Cold start		45		
Leakage Current	240VAC			<3.5mA		
Hot Plug				Unav	ailable	

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ltem	Operating Conditions		Min.	Тур.	Max.	Unit
Outrout Valtares Assurance	E.W. J.	12V		±2.0		%
Output Voltage Accuracy	Full load range	24V/48V		±1.0		
Line Regulation	Rated load			±0.5		
Load Regulation	0% - 100% load			±1.0		
		12V			80	
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	24V			120	mV
		48V	-	-	150	
Temperature Coefficient			-	±0.03		%/℃
Minimum Load			0	-		%
Halalana Tha a	115VAC			-		
Hold-up Time	230VAC					ms
Short Circuit Protection	Recovery time < 3s after the short circuit of	Co	Constant current, continuous, self-recovery			
Over-current Protection				105%-150% lo, constant current mode, automatic recover after fault condition removed		
	12V		17V(Output voltage turn off, re-p on for recover)			re-powe
Over-voltage Protection	24V			<33V(Output voltage turn off, re-power on for recover)		
	48V		1	60V(Output voltage turn off, re-powe on for recover)		
Over-temperature Protection			Output voltage turn off, re-power on for recover			

General S	Specification	ns					
Item		Operating Conditions		Min.	Тур.	Max.	Unit
	Input - 🖶	Electric strength test for 1min., leakage current <10mA		2000			VAC
Isolation Test	Input-output			4000			
	Output -=			500		_	
11	Input - 🖶			50			
Insulation	Input - output	At 500VDC		50			MΩ
Resistance	Output -=			50		-	1
Operating Temperature				-30	-	+70	°C
Storage Temperature				-40		+85	
Storage Humidity		Non-condensing		10		95	%RH
Switching Frequency					65		kHz
Power Derating		Operating temperature	-30°C to -10°C	2.0			%/ °C
		derating	+45 °C to +70 °C	2.0			
		Input voltage derating	90VAC -100VAC	2.0			%/VAC
Safety Standard			Meet IEC/EN/UL62368/IEC/EN/UL60335/GE		'UL60335/GB49	43/UL508	
Safety Class				CLASS I			
MTBF		MIL-HDBK-217F@	⊉25 ℃	>300,000 h			

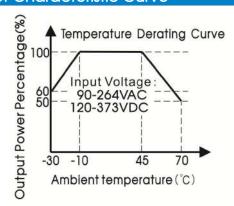
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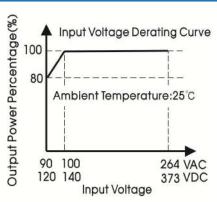
SLI75-20BxxR2 Series

Mechanical Specifications		
Case Material	Case Material Metal (AL5052, SGCC) and Plastic(PC940)	
Dimensions	30.00 x 128.00 x 120.00mm	
Weight	370g (Typ.)	
Cooling Method Free air convection		

Electrom	nagnetic Compatibility (EMC	:)				
Emissions	CE	CISPR32/EN55032	CLASS B			
	RE	CISPR32/EN55032	CLASS B			
	Harmonic current	IEC/EN61000-3-2	CLASS A			
Immunity	ESD	IEC/EN 61000-4-2	Contact ±4KV /Air ±6KV	Perf. Criteria A		
	RS	IEC/EN 61000-4-3	10V/m	perf. Criteria A		
	EFT	IEC/EN 61000-4-4	±2KV	perf. Criteria A		
	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		
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11	0%, 70%	perf. Criteria B		

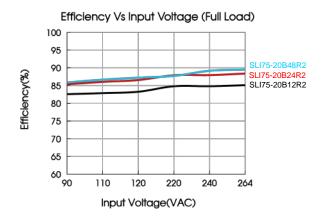
Product Characteristic Curve

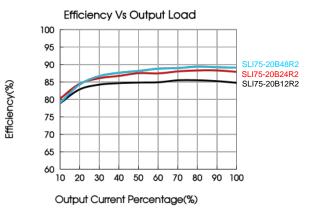




Note: ①With an input voltage between 90-100VAC and a DC input between 120-140VDC the output power must be derated as per the temperature derating curves;

②This product is suitable for applications using natural air cooling; for applications in closed environment please consult SCHMID-MFAE.

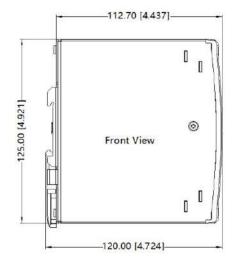


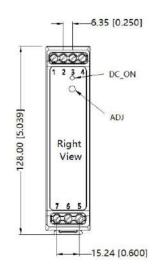


Dimensions and Recommended Layout









Pin	-Out
Pin	Function
1	+Vo
2	+Vo
3	-Vo
4	-Vo
5	AC(L)
6	AC(N)
7	干

Note:

Unit: mm[inch]

ADJ: adjustable resistance to change

output voltage

Wire range: 26-10 AWG

Tightening torque: Max 0.4 N·m Mounting rail: TS35, rail needs to

connect safety ground

General tolerances: ±1.00[±0.039]

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 room temperature derating of 5°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;
- 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.