AC/DC Converter SLO30-10C0512-12



30W, AC-DC converter



FEATURES

- 85 264V Universal AC or wide 100 373V DC Input
- Triple output, regulated, high output voltage accuracy
- High efficiency up to 78%
- Output short circuit, over-current, over-voltage protection
- Safety Class: CLASS II

SLO30-10C0512-12 is one of SCHMID-M's compact size power converter. The product features universal AC input voltage, at the same time also accepts DC input, high efficiency, high reliability and reinforced insulation. It offers excellent EMC performance, meets IEC62368 safety standard.

Selection Guide								
David No.	Output Dower	Nominal Output Voltage and Current		Efficiency at	Capacitive Load (µF) Max.			
Part No. Output Power		Vo1/lo1	Vo2/ lo2	-Vo2/ -lo2	230VAC (%) Typ.	Vo1	Vo2	-Vo2
SLO30-10C0512-12	31.2W	5V/3000mA	12V/1200mA	-12V/150mA	78	15000	1000	220

Input Specifications						
Item	Operating Conditions	Min	. Тур.	Max.	Unit	
Innut Voltage Dange	AC input	85		264	VAC	
Input Voltage Range	DC input	100		373	VDC	
Input Frequency		47		63	Hz	
la and Orange d	115VAC			0.9		
Input Current	230VAC			0.5		
	115VAC	-	30		Α	
Inrush Current	230VAC		50	-		
Recommended External Input Fuse			2A/250\	, slow-blow		
Hot Plug			Unavailable			

Output Specifications							
Item	Operating Conditions		Min.	Тур.	Max.	Unit	
	Vo1		-		±2		
Output Voltage Accuracy	Vo2		-		±5		
		Vo1	-	±0.5		%	
Line Regulation	Full load	Vo2	-	±1.5			
	10% - 100% load	Vo1	-	±3			
Load Regulation		Vo2		±5			
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)		-	100	200	mV	
Short Circuit Protection	5V output		Hiccu	Hiccup, continuous, self-recovery			
Over-current Protection	5V output			≥110%lo, self-recovery			
Over-voltage Protection	on 5V output		≤7.5VDC				
Minimum Load			10			%	
	115VAC input			5			
Hold-up Time	230VAC input			20		ms	
Note: * The "parallel cable" method is used f	for ripple and noise test	, please refer to AC-DC Converter Appl	ication Notes fo	r specific info	ormation.		

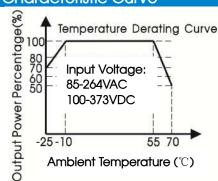
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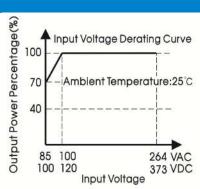
General S	Specifications Specification Specification Specification Specification Specification Specificati						
Item		Operating Conditions	Min.	Тур.	Max.	Unit	
11	Input-output	Electric Strength Test for 1min.,				VAC	
Isolation	Vo1 - Vo2/(-Vo2)	(leakage current<5mA)	500			VDC	
Operating Temperature			-25		+70	°C	
Storage Temperature			-25		+85		
Storage Humidity					95	%RH	
Switching Frequency				65		kHz	
Power Derating		-25°C to -10°C	2		-	%/ ℃	
		+55°C to +70°C	3.33		_		
		85VAC- 100VAC	2		-	%/VAC	
Safety Standard			UL62368/E	UL62368/EN62368/IEC62368			
Safety Class			CLASS II	CLASS II			
MTBF		MIL-HDBK-217F@25℃	≥ 300,000	≥ 300,000 h			

Mechanical Specifications				
Dimension	97.00 x 50.00 x 28.00mm			
Weight	86g (Typ.)			
Cooling Method	Free air convection			

Electrom	agnetic Co	ompatibility (EMC)		
Factories	CE	CISPR32/EN55032	CLASS A	
Emissions	RE	CISPR32/EN55032	CLASS A	
	ESD	IEC/EN61000-4-2	Contact ±4KV	Perf. Criteria B
I	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A
Immunity	EFT	IEC/EN61000-4-4	±2KV	perf. Criteria B
	Surge	IEC/EN61000-4-5	line to line ±1KV	perf. Criteria B

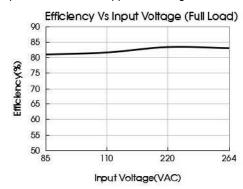
Product Characteristic Curve

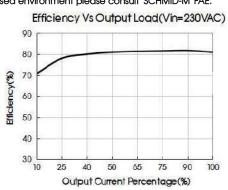




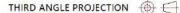
Note: ①With an AC input voltage between 85 - 100VAC and a DC input between 100 - 120VDC the output power must be derated as per the temperature derating curves;

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

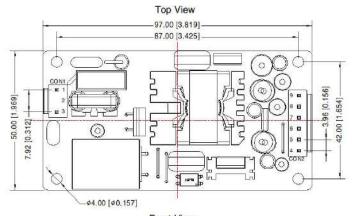




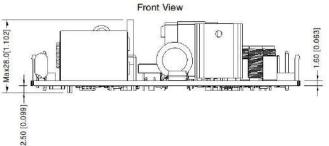
Dimensions and Recommended Layout







		Pin-Out			
Pin	Function	Product Connectors	Client Connectors		
1	AC(L)	VH-3A	VH-3Y		
2	NoPin	or B2P3-VH	or VHR-3N		
3	AC(N)	or the same Spec.	or the same Spec		
4	GND		VH-6Y or VHR-6N		
5	+Vo1				
6	NC	VH-6A or B6P-VH or the same Spec.			
7	-V02		or the same Spec		
8	сом				
9	+V02	1			



Note:

Unit: mm[inch]

General tolerances: ±0.50[±0.020]

In CON1 model: VH-3A, Client Connectors: VH-3Y Out CON2 model: VH-6A, Client Connectors: VH-6Y Mounting hole screwing torque: Max 0.4 N·m

The layout of the device is for reference only, please refer to the

actual product

Notes:

- 1. 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;
- 2. 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;
- 3. All index testing methods in this datasheet are based on our company corporate standards;
- 4. We can provide product customization service, please contact our technicians directly for specific information;
- 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.