MORNSUN[®]

150W, AC-DC converter



FEATURES

- Wide input voltage range: 85 264VAC/100 370VDC
- AC and DC dual-use (input from the same terminal)
- Operating temperature range: -40°C to +70°C
- Low standby power consumption, High efficiency
- 3.75KVAC high isolation voltage
- Low ripple & noise
- Output short circuit, over-current, over-voltage, protection
- Meet IEC62368,EN62368,UL62368

LM150-10Bxx series ---- offered by Mornsun. It features Cost-effective, energy efficient. It offers stability and high noise immunity for industrial control equipment, machinery and other harsh environments of industrial equipment. The converter is compact size, light weight, compact structure, save a lot of space for customers.

Selection Guide						
Part No.	Output Power	Nominal Output Voltage and Current (Vo/Io)	Efficiency (230VAC, %/Typ.)	Max. Capacitive Load (µF)		
LM150-10B12	150\4/	12V/12.5A	87	10000		
LM150-10B24	150W	24V/6.5A	89	4700		

Input Specifications					
Item	Operating Conditions	Min.	Тур.	Max.	Unit
	AC input	85		264	VAC
Input Voltage Range	DC input	100		370	VDC
Input frequency		47		63	Hz
Input current	115VAC			3.0	
	230VAC			1.7	
Inrush current	115VAC		35		A
	230VAC		60		
Hot Plug			Unavailable		

Item	Operating Conditions		Min.	Тур.	Max.	Unit	
lielli	Operating Conditions		171111.	iyp.	IVICA.		
Output Voltage Accuracy				±l			
Line Regulation	Full load			±0.5		%	
Load Regulation				±0.5			
	12V		10.2		13.8	V	
Output adjustable range	24V		21.6		28.5	V	
Outrout Displa & Naisa*	20MHz bandwidth (peak-peak value)	12V			150	mV	
Output Ripple & Noise*		24V			200		
Temperature Drift Coefficient				±0.03		%/° C	
Stand-by Power Consumption					0.5	W	
Short Circuit Protection			Hiccup, Continuous, self-recovery				
Over-current Protection	110-200% Io, overload continuous working time is than 10s, self-recovery				ng time is less		
Ourse with the Decks of the state	12V			≤16V			
Over-voltage Protection*	24V			≪35V			
Min. Load			0			%	
Hold-up Time	230VAC			35		ms	

Note: * Rely test method is adopted test the ripple and noise, please see AC-DC Converter Application Notes for specific operation methods. * Output latched after OVP, and recovered by an AC restart cycle.

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AC/DC Converter LM150-10Bxx Series

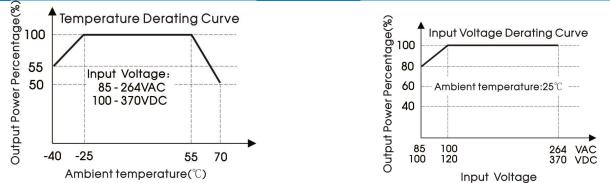
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General Spe	cifications						
Item		Operating Conditions	Min.	Тур.	Max.	Unit	
	Input-output		3750			VAC	
Isolation Voltage	Input- 📥	Test time: 1min,Leakage current<10mA	2500				
	Output- 上		1250				
Operating Temperature			-40		+70	Ĉ	
Storage Temperature			-40		+85		
Storage Humidity			95 *		%RH		
Switching Frequence	хy		65		kHz		
Power Derating		-40 ℃ to -25℃	3				
		+50 ℃ to +70 ℃	2.5			%/ ℃	
Safety Standard			Meets UL62368/EN62368/IEC62368				
Safety Class			CLASS I				
MTBF		MIL-HDBK-217F@25°C	> 300,000 h				

Physical Specifications			
Casing Material	metal		
Package Dimensions	159.00*97.00*30.00mm		
Weight	460g(Typ.)		
Cooling method	Free air convection		

EMC Specifi	cations					
EMI	CE	CISPR32/EN55032	CLASS B			
	RE	CISPR32/EN55032	CLASS B			
	ESD	IEC/EN61000-4-2	Contact ±6KV/Air ±8KV	Perf. Criteria A		
EMS	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A		
	EFT	IEC/EN61000-4-4	±2KV	perf. Criteria A		
	Surge	IEC/EN61000-4-5	line to line ± 2 KV/line to ground ± 4 KV	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 B		

Product Characteristic Curve



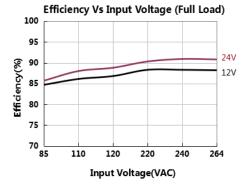
Note: ①Input voltage should be derated based on temperature derating when it is 85 -100VAC/100 -120VDC; ②This product is suitable for use in natural air cooling environments, if in a closed environment, please contact our company's FAE.

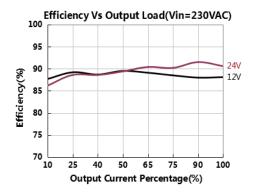


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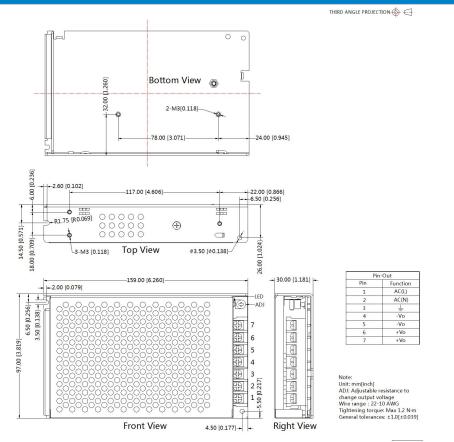
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Dimensions and Recommended Layout



Notes:

- 1. Packing information please refer to Product Packing Information which can be downloaded from www.mornsun-power.com. Packing bag number: 58220045;
- 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. We can provide product customization service, please contact our technicians directly for specific information;
- 6. Specifications are subject to change without prior notice.

MORNSUN Guangzhou Science & Technology Co., Ltd.

Address: No. 5, Kehui St. 1, Kehui Development Center, Science Ave., Guangzhou Science City, Luogang District, Guangzhou, P. R. China Tel: 86-20-38601850-8801 Fax: 86-20-38601272 E-mail: info@mornsun.cn

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