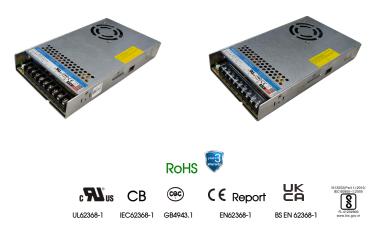


Version A/9

ACDC-48VDC-7A

AC/DC 350W Enclosed Switching Power Supply)



Features

- Selectable AC input range: 180 264VAC
- Ultra low standby power consumption < 0.75W @230VAC
- Operating ambient temperature range: 30 $^\circ\!\mathrm{C}$ to +70 $^\circ\!\mathrm{C}$
- LED indicator for power on
- Output short circuit, over-current, over-voltage, over-temperature protection
- Built-in DC fan
- Operating up to 5000m altitude

It features selectable AC input and at the same time accepts DC input voltage, cost-effective, low no load power consumption, high efficiency and high reliability. These power supply offer excellent EMC performance and meet IEC/EN61000-4, CISPR32/EN55032, IEC/ UL/EN62368, EN60335, GB4943 standards and they are widely used in areas of industrial, LED, street light control, electricity, security, telecommunications, smart home etc.



Selection G	uide					
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)
UL/EN/IEC CQC/BIS	LM350-10B48	350.4	48V/7.3A	43.2-52.8	88.5	470

Input Specification	S					
Item	Operating Condi	itions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC input	High voltage (switch in position of 230)	180		264	VAC
Input Voltage Frequency			47		63	Hz
Input Current	nput Current 230VAC			3.4	4	•
Inrush Current	230VAC	Cold start		60		A
Leakage Current	240VAC				0.75	mA
Hot Plug				Unavo	ailable	

Output Specifications								
ltem	Operating Condition	Operating Conditions			Max.	Unit		
Output Voltage Accuracy	Full load range	48V		±l		%		
Line Regulation	Rated load			±0.5				
Load Regulation	0% - 100% load	48∨		±0.5				



Output Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	48V	-	200		mV
Temperature Coefficient				±0.02		%/ ℃
Minimum Load			0			%
Stand-by Power Consumption	230VAC, 25 ℃				0.75	W
Hold-up Time	230VAC			16		ms
Short Circuit Protection	Recovery time <8s after the short circuit disappear		Hiccup, continuous, self-recover			
Over-current Protection			110% - 180% lo, self-recover			
Over-voltage Protection	48V		55.2∨	'-59.5V (Hici	cup, self-re	cover)
Over-temperature Protection				Hiccup, se	elf-recover	

Note: *The "Tip and barrel method" is used for ripple and noise test, output parallel 47uF electrolytic capacitor and 0.1uF ceramic capacitor, details please refer to Enclosed Switching Power Supply Application Notes.

General	Specificatio	ons						
ltem		Operating Conditions	Min.	Тур.	Max.	Unit		
	Input - 🕀	Electric strength test for 1min., leakage current <3mA		2000				
Isolation Test	Input - output	Electric strength test for 1min., leakag	ge current <5mA	3000			VAC	
Output - 🕀		Electric strength test for 1min., leakage current <3mA					-	
Input - 🕀		Ambient temperature: $25 \pm 5^{\circ}$ C						
Insulation	Input - output	Relative humidity: < 95%RH, no cond	ensation	100			MΩ	
Resistance	Output - 🕀	Test voltage: 500VDC		100			-	
Operating Ter	mperature			-30		+70		
Storage Temp	perature			-40		+85	- °C	
Fam. 0		Fan On, temperature for Rth3		50			- 0	
Fan On/Off Control		Fan Off, temperature for Rth3			40	-		
Operating Humidity		Non-condensing		20		90	%RH	
Storage Humidity			10		95	/01<11		
Switching Free	quency				65		kHz	
Power Derating		Operating temperature derating	+50℃ to +70℃	2			%/ ℃	
		Input voltage derating 180VAC - 264VAC		0			%/VAC	
Safety Standard			IEC/UL62368-1, GB4943.1, IS safety approved & EN62368 Design refer to EN60950-1, EI		N62368-1 (Report)		
Safety Class				CLASS I				
MTBF		MIL-HDBK-217F@25°C		>300,000	h			



ACDC-48VDC-7A 350W Enclosed Switching Power Supply

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Mechanical Specifications					
Case Material	Metal (AL1100, SGCC)				
Dimensions	215.00 mm x 115.00 mm x 30.00mm				
Weight	700g (Тур.)				
Cooling Method	Forced air cooling				

Electromagnetic Compatibility (EMC)						
Emissions	CE	CISPR32/EN55032 CLASS A				
	RE	CISPR32/EN55032 CLASS A				
	ESD	IEC/EN 61000-4-2 Contact ±6KV/Air ±8KV	perf. Criteria A			
	RS	IEC/EN 61000-4-3 10V/m	perf. Criteria A			
Immunity	EFT	IEC/EN 61000-4-4 ±2KV	perf. Criteria A			
	Surge	IEC/EN 61000-4-5 line to line ± 2 KV/line to ground ± 4 KV	perf. Criteria A			
	CS	IEC/EN61000-4-6 10 Vr.m.s	perf. Criteria A			
	DIP	IEC/EN61000-4-11 0%,70%	perf. Criteria B			

Remark: 1.One magnetic beed should be coupled with the output load line during CE/RE testing.

2.Matching our filter FC-L06WX series, can meet the higher level of EMC.

3. The power supply does not meet the requirements of harmonic current stipulated in EN61000-3-2; This power supply is not suitable for the following situations.

1) The terminal equipment is used in the European Union;

2) The terminal equipment is connected to public mains supply with 220VAC or greater rated nominal voltage that mandatory to meet the requirements of EN61000-3-2;

3) The power supply is installed in terminal equipment with average or continuous input power greater than 75W;

4) The power supply belong to a part of lighting system;

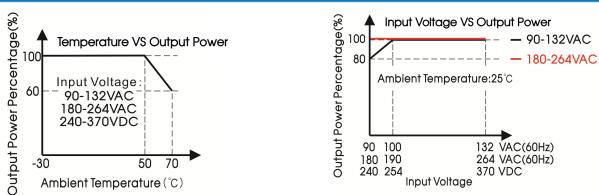
In addition, the power supply can be used in the following terminals which do not need to meet EN61000-3-2;

(1) Professional equipment with total fixed input power greater than 1000W;

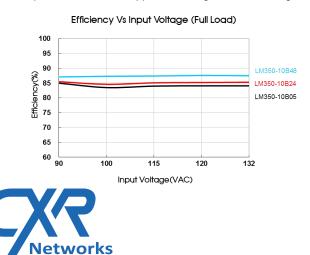
(2) symmetrical controlled heating element with rated power less than or equal to 200W.

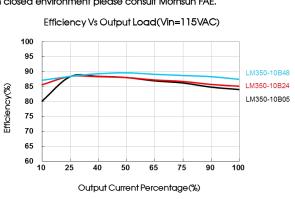
4.If no harmonic current is required or customers can solve harmonic current problems by themselves, this product can be used.

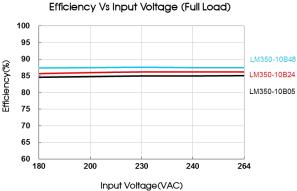
Product Characteristic Curve



Note: This product is suitable for applications using natural air cooling; for applications in closed environment please consult Mornsun FAE.

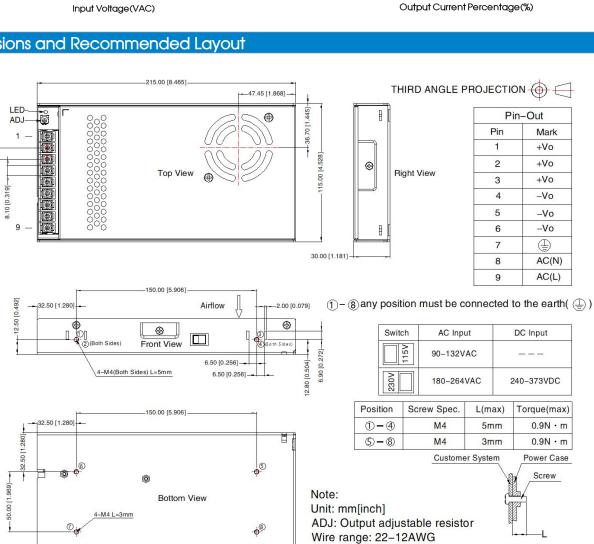


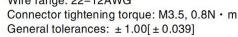




Dimensions and Recommended Layout

9.50 [0.374]-







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LM350-10B48

LM350-10B24

LM350-10B05

Efficiency Vs Output Load(Vin=230VAC)

100

95

90

85

80

75

70

65

60 10

25

40

50

65

75

90

100

Efficiency(%)

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