

EMC Filter









FEATURES

Ultra-wide input voltage range: 0-305VAC / 0-430VDC

Working current: 40A MAX

• Operating temperature range: -40°C to +85°C

Conforms to EMC standards:
IEC/EN61000-4 series, CISPR32/EN55032

• High surge suppression: ±4kV/6kV

Insertion loss: DM & CM > 50dB@10MHz

Passed the safety standard: IEC62368

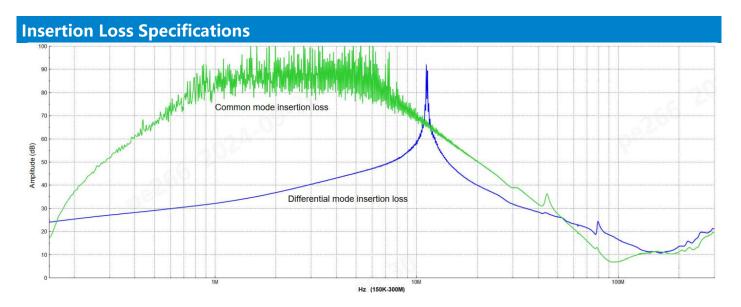
The product FC-L40Y belongs to the connected EMC auxiliary for 40A series power supply products .Adding FC-L40Y to the front end of the power supply can improve the EMC performance of the power supply products IEC/EN61000-4 series and CISPR32/EN55032 standards. The maximum input voltage of the power supply should not be greater than the maximum operating voltage of the auxiliary power supply, and the maximum input current should not be greater than the maximum operating current of the filter.

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Model	Operating Voltage(VAC)		Operating Current(A)			Matakina The
	Typ. (Range)	Max*	Тур.	Max	Surge Performance	Matching The Power Model
FC-L40Y	115/230 (0-305)	310	-	40.0	Line-Line ±4kV Line-PE ±6kV	LMF3000-20BXX

Genera	l Specific	ations					
Item		Test Conditions	Min.	Тур.	Max.	Unit	
Operating Temperature			-40		+85	℃	
Storage Temperature			-40		+85		
Storage H	umidity	Non-condensing	5		95	%RH	
Isolation Voltage	IN(L) - ()	Test time 1 minute, leakage current < 5mA		2000		VAC	
		150KHz~1MHz	15	20		dB	
Insertion Loss (CM/DM)		1MHz~10MHz	30	35		dB	
		10MHz~30MHz	30	35		dB	
MTBF		MIL-HDBK-217F@25℃	250			K hours	
Altitude			≦ 5000m				
Warranty				5 ye	ars		



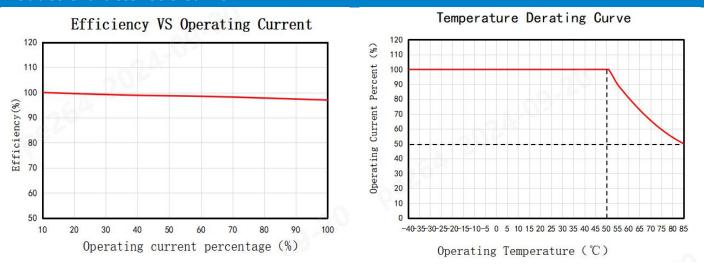
Physical Characteristics	
Case Material	Aluminium alloy
Dimension	140.00mm x70.00mm x 42.00mm
Weight	360g(Typ.)
Cooling Method	Free air convection



EMI	CE	CISPR32/EN55032	CLASS B	
EIVII	Harmonics	IEC/EN61000-3-2	CLASS A and CLASS D	
EMS	ESD	IEC/EN61000-4-2	Contact ±8kV Air ±15kV	perf. Criteria A
	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4	±4kV	perf. Criteria A
	CS	IEC61000-4-6	10V r.m.s	perf. Criteria A
	Surge	IEC/EN61000-4-5	Line-Line ±4kV Line-PE ±6kV	perf. Criteria A

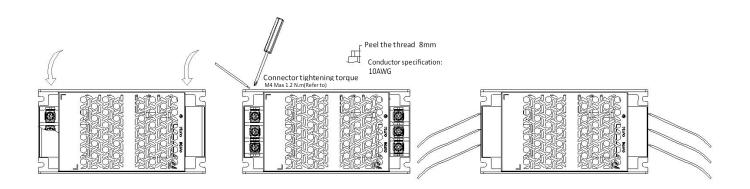


Product Characteristic Curve

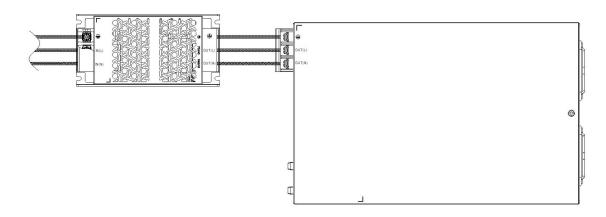


Note: This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.

Installation Instruction



Wiring Schematic Diagram

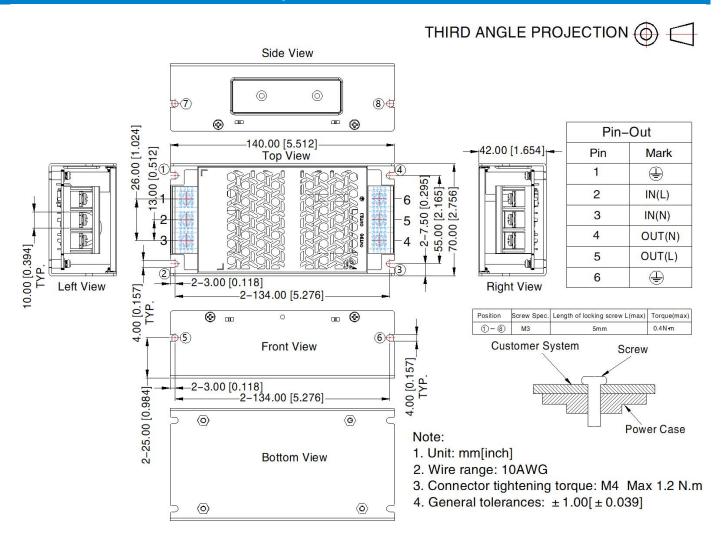


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Dimensions and Recommended Layout



Note:

- 1. For additional information on Product Packaging please refer to www.mornsun-power.com. Packaging bag number: 58220276;
- 2. Unless otherwise specified, data in this datasheet should be tested under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated 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;

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