Constant Voltage LED Power Supply SEA75-48VL





Standards

EN61347-1:2015 EN 61347-2-13:2014+A1 EN62493:2015 AS/NZS 61347.2.13 EN 61347-2-13:2014 +A1 EN61347-1:2015

Product description

SEA75-48VL series is an indoor constant voltage power supply. Its input voltage range is 220-240Vac, with the high efficiency up to 90%, fanless design, working in the temperature range of -20 ° C to + 45 ° C under free air convection. It has ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, with all-round protection functions, which not only greatly improves the reliability of the product, but also ensures the life cycle of product. This series of products is designed for LED lighting used in indoor applications. The product designed completely in accordance with world's lighting equipment safety regulations to ensure the safety of both user and luminaire system during installation.

Characteristics

- European AC input / (220-240VAC)
- Waterproof IP20
- Suitable for indoor environment
- Protections: Short circuit / Over voltage / Open circuit
- Fully enclosed plastic housing
- Compliance to worldwide safety regulations for lighting
- Warranty 5 years



Specifications

Model		SEA75-48VL			
	turn on time(S)	<0.5			
	output power(W)	75			
	output voltage(V)	48			
	output voltage tolerance	±5%			
	ripple voltage(mV)	±3%			
Output	Line Regulation	±3%			
	Load Regulation	±3%			
	working current range(A)	0-1.56			
	SVM	≤0.4			
	Pst	≤1			
	dimming type	N/A			
	dimming range	N/A			
	rated DC supply voltage(Vdc)	-			
	rated supply voltage(Vac)	220-240			
	voltage range(Vac)	198-264			
	line frequency(Hz)	50/60			
	input current(A)	0.370/230V			
Input	efficiency	90%@full load			
	average efficiency 3	≥90%			
	no load power consumption(W)	≤0.5W			
	power factor	0.95@full load			
	Displacement factor	≥0.9			
	THD(typ.) THD	10%			
	inrush current(lpk) (lpk)	34A/225uS			
	Leakage current	<0.7mA			
	short circuit protection	hiccup mode, restart automatically after fault correction.			
	over load protection	exceed maximum rated load times 1.1-1.2			
	Over voltage protection	-			
Protection	protection	-			
	Surge capacity	L-N: 1KV	M-	N-	0-



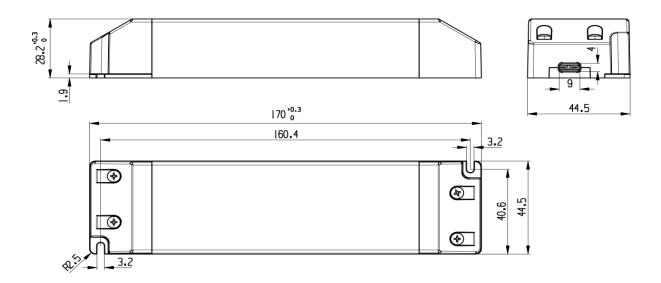
	Withstand voltage	Input-Output: 3750V/5mA/1min		
Ambient and Life	Ta(C)	-2045		
	Tc max.(C)	max.90		
	Storage Temperature(C)	-4080		
	ambient humidity range	10%95%RH, Not condensing		
	nominal life-time(hrs)	50'000@Ta		
	dimensions (L×W×H)(mm)	170*44.5*28.2		
	weight(g)	222		
Other	casing material	Plastic		
Omer	housing colour	White		
	type of protection	IP20		
	protection class	class II		
	certificate	TUV CE		

Note

- 1. Tolerance: includes set up tolerance, line regulation and load regulation.
- 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs.
- 3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values.
- 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.
- 5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



Dimensions (mm)



Wiring Diagram

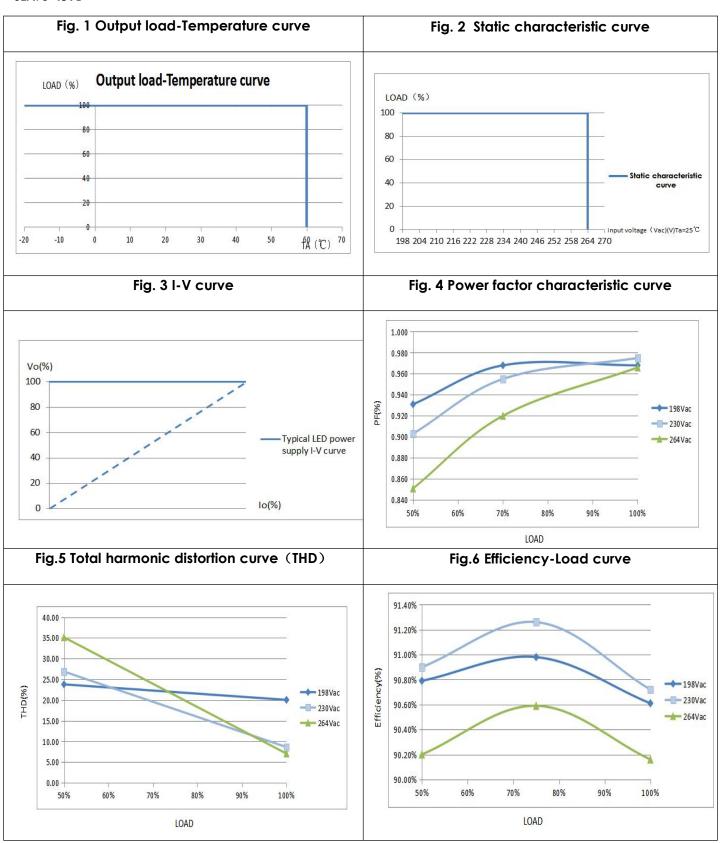


Note:	
AC	CA 350-04-500-03P-14-200 *green
DC	CA 350-04-500-02P-13-200 *blue



Electrical curves

SEA75-48VL





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SEA75-48VL	11	14	18	22	19	25	31	38

Package

Model	Carton quantity(pcs)	Carton dimension(cm)	G.W./CTN(kg)
SEA75-48VL			

Revision history

Date	Rev.	Remark
2023.3	A0	Initial release.

