Constant Voltage LED Power Supply SL75-12VFM SL75-24VFM



Product description

SL75-12/24VFM is an indoor 4 in 1 dimming (Triac+ (0-10V, PWM, Potentiometer)) dimming constant voltage LED driver .Its input voltage range is 220-240VAC and the working range is -20 C~+45C natural cooling and heat dissipation. This product is not only cost-effective, but also integrates 4 dimming methods. In order to improve the safety of the product, open circuit, short circuit and overload protection functions are added to the circuit. This series of products is designed for LED lighting and is suitable for indoor IP20 locations with LED lamps. Complies with European lighting equipment safety regulations while ensuring the safety of users and lighting systems during installation.

Standards

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493

Characteristics

.Suitable for Triac leading and trailing dimmers Suitable for (0-10V, PWM, Potentiometer) dimmer, . .Isolated type; .Complies with the latest standards .AC(220-240VAC) . IP20 .Active PFC .Suitable for indoor environments .Protection type: short circuit/over temperature/over voltage protection .Using plastic shell, filled with glue inside . Built-in lightning protection device, capable of meeting differential mode and common mode 1kV . Complies with European lighting equipment safety regulations .Dimming range: 1-100% (thyristor) .Dimming range: 0-100% (three-in-one) 5 years warranty

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Specifications

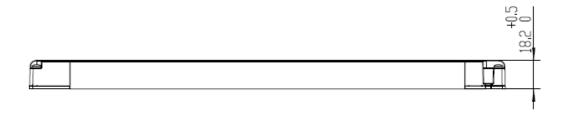
Model		SL75-12VFM	SL75-24VFM		
	output power(W)	15-75	15-75		
	output voltage range(V)	12	24		
	output current(A)	1.25 6.25A	0.625 3.125A		
Output	output voltage tolerance	5%	5%		
	Line Regulation	2%	2%		
	Load Regulation	5%	5%		
	Dimming mode	Triac.0-10VPWMPotentiometer	Triac.0-10VPWMPotentiometer		
	SVM	0.1	0.1		
	Pst	0.1	0.1		
	turn on time(S)	0.5	0.5		
	rated DC supply voltage(Vdc)	NA	NA		
	rated supply voltage(Vac)	220-240	220-240		
	voltage range(Vac)	198-264	198-264		
	line frequency(Hz)	50/60	50/60		
	input current(A)	0.4@230V	0.4@230V		
Input	efciency (TYPE)	89.4%@full load	90.5%@full load		
	power factor	0.98@full load	0.98@full load		
	Displacementfactor	0.98	0.98		
	THD(typ.) THD	<10%@full load 230V	<10%@full load 230V		
	inrush current(lpk) lpk	65A@twidth=250us	65A@twidth=250us		
	Leakage current (mA)	0.75@240Vac 60Hz	0.75@240Vac 60Hz		
	short circuit protection	Yes(latch off)	Yes(latch off)		
	over load protection	exceed maximum rated load times 1.1-1.6 latch off	exceed maximum rated load times 1.1 1.6 latch off		
	Over voltage protection	Yes(latch off)	Yes(latch off)		
	Over temperature protection	Yes(latch off)	Yes(latch off)		
Protection		L-N: 1KV	L-N: 1KV		
	Withstand voltage	Input-Output3750V/5mA/1min	Input-Output3750V/5mA/1min		
	Ta(C)	-20-45	-20-45		
	Tc max.(C)	max.85	max.85		
Ambient	Storage Temperature(C)	-4080	-4080		
and Life	ambient humidity range	5%85%RH, Not condensing	5%85%RH, Not condensing		



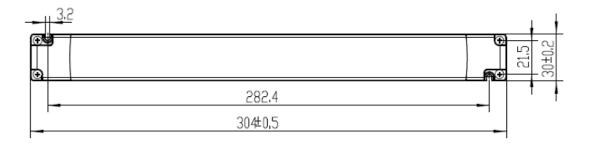
	nominal life-time(hrs)	50'000@Tc 80	50'000@Tc 80		
	dimensions (LWH) (mm)	304*30*18.2	304*30*18.2		
	weight(g)	260	260		
	casing material	PC	PC		
Other	housing colour				
	type of protection	IP20	IP20		
	protection class	class II	class II		
	certificate				
Note	 Tolerance:includes set up tolerance, line regulation and load regulation. Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. Calculate the models 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. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 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. 				



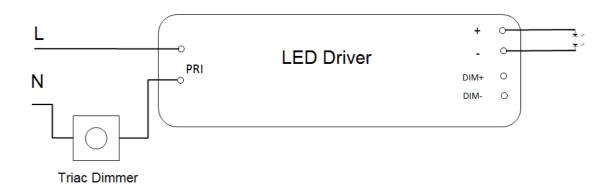
Dimensions(mm)

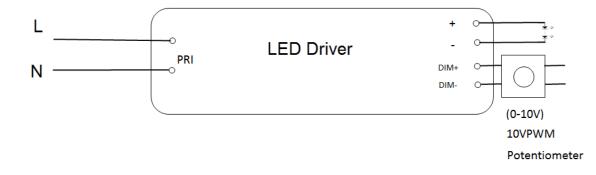




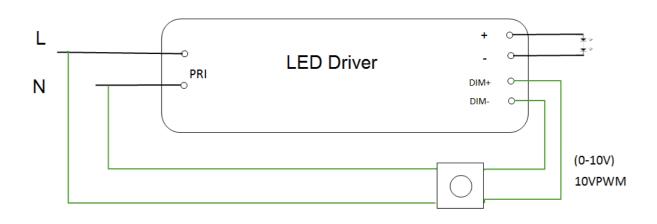


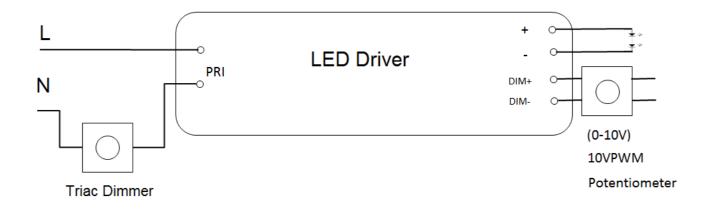
Wiring Diagram







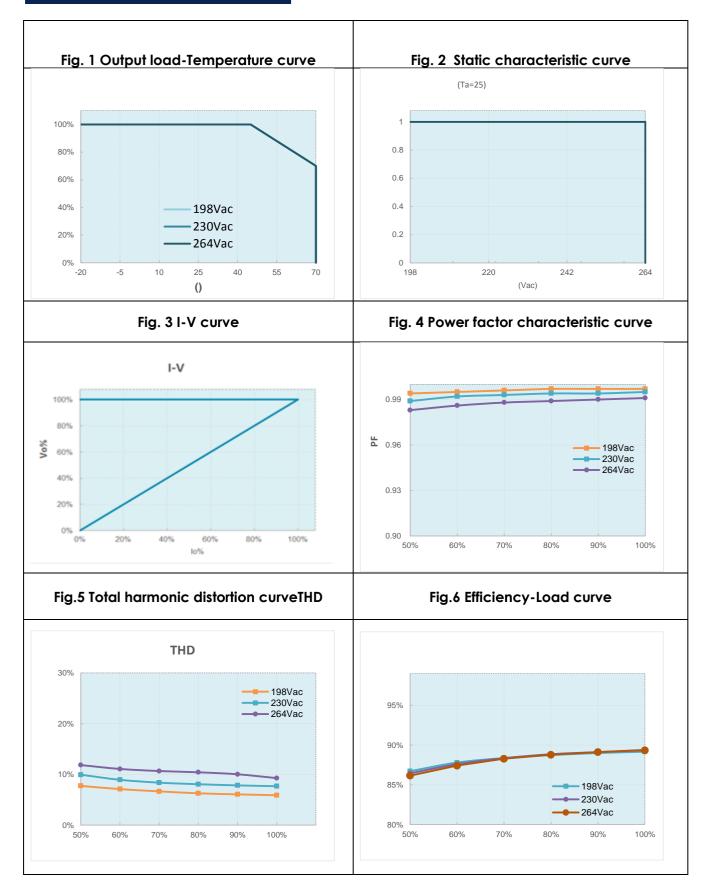




AC	H03VVH2-F 2*0.75mm ²
DC	12V: + H03VVH2-F 2*1.0mm ²
	24V: + H03VVH2-F 2*0.75mm ²



Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SL75-12VFM	10	13	16	20	12	16	20	25
SL75-24VFM	10	13	16	20	12	16	20	25

Package			
Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SL75-12VFM			
SL75-24VFM			

Revision history

Date	Rev.	Remark
2023.7.6	AO	Initial release.
2023.11.23	A1	Official release

