

# Constant Voltage LED Power Supply

## FCV Ultrathin Series

SLD150-24VFD-EU1

SLD150-48VFD-EU1

SLD200-24VFD-EU1

SLD200-48VFD-EU1



### Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant voltage (CV) technology, it is suitable for constant voltage lamps (24V/48V) connected in parallels. It also can be dimmable from 0.1%-100% and colour control (DT8) of CCT(CorrelatedColorTemperature) through DALI2.0. The built-in protection circuit will shut down the power supply in case of such faults as: open circuit, short circuit, over load. The power supply will restart automatically after fault correction.



### Standards:

EN61347-1  
EN61347-2-13  
EN61547  
EN55015  
EN61000-3-2  
EN61000-3-3  
EN62384  
EN62493  
EN62386:101,102,207,209

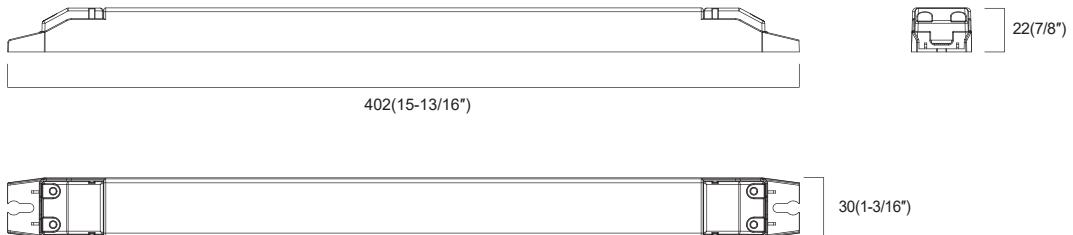
### Characteristics:

- Independent power supply for constant voltage LED lamp
- Class II protection against electric shock from direct and indirect contact
- Ultraslim design only 22mm on height
- Standby power consumption≤0.5W
- Meet L-N 1KV surge immunity level
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after removal of fault conditions
- Class I and II lamp application
- ECO design, comply with ERP directives
- Comply with DALI2.0 deepin dimming to 0.1%
- Warranty : 5 Years

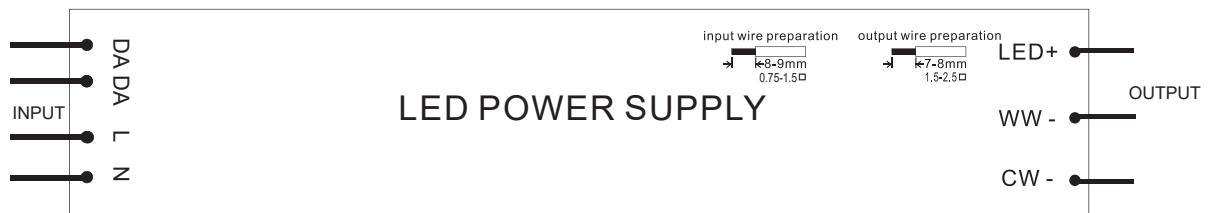
## Specifications:

Model	SLD150-24VFD-EU1	SLD150-48VFD-EU1	SLD200-24VFD-EU1	SLD200-48VFD-EU1
Output	<b>turn on time(S)</b>	comply with DALI2.0	comply with DALI2.0	comply with DALI2.0
	<b>output power(W)<sup>1</sup></b>	150	150	200
	<b>output voltage(V)</b>	24	48	24
	<b>output voltage tolerance</b>	≤±3%	≤±3%	≤±3%
	<b>ripple voltage(mV)</b>	400	600	400
	<b>working current range(A)</b>	0-6.25	0-3.13	0-8.33
	<b>dimming interface</b>	supplementary insulation DALI interface	supplementary insulation DALI interface	supplementary insulation DALI interface
	<b>dimming range</b>	0.1%-100% linear & exponent	0.1%-100% linear & exponent	0.1%-100% linear & exponent
	<b>CCT Adjustable</b>	Yes	Yes	Yes
Input	<b>rated DC supply voltage(Vdc)</b>	220-280VDC	220-280VDC	220-280VDC
	<b>rated supply voltage(Vac)</b>	220-240	220-240	220-240
	<b>voltage range(Vac)</b>	198-264	198-264	198-264
	<b>line frequency(Hz)</b>	0/50/60	0/50/60	0/50/60
	<b>input current(A)</b>	0.75	0.75	0.75
	<b>efficiency<sup>2</sup></b>	≥92.5%@full load	≥93.5%@full load	≥92.5%@full load
	<b>average efficiency<sup>3</sup></b>	≥91%@full load	≥91.5%@full load	≥91%@full load
	<b>standby no load power consumption(W)</b>	≤0.5W	≤0.5W	≤0.5W
	<b>power factor</b>	0.95@full load	0.95@full load	0.95@full load
Protection	<b>inrush current(ipk)<sup>4</sup></b>	80A/50μs	80A/50μs	80A/50μs
	<b>short circuit protection</b>	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.
	<b>over load protection</b>	exceed maximum rated load times 1.1	exceed maximum rated load times 1.1	exceed maximum rated load times 1.1
	<b>automatic restart</b>	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.
Ambient and Life	<b>surge capacity</b>	L-N: 1kV	L-N: 1kV	L-N: 1kV
	<b>Ta(°C)</b>	-20...50	-20...50	-20...40
	<b>Tc max.(°C)</b>	max.90	max.90	max.90
	<b>Storage Temperature(°C)</b>	-30...80	-30...80	-30...80
	<b>ambient humidity range</b>	5%...85%RH, Not condensing	5%...85%RH, Not condensing	5%...85%RH, Not condensing
	<b>nominal life-time(hr)</b>	50'000@Tc	50'000@Tc	50'000@Tc
Other	<b>weight(g)</b>	400	400	400
	<b>dimensions (LxWxH)(mm)</b>	402x30x22	402x30x22	402x30x22
	<b>casing material</b>	Plastic	Plastic	Plastic
	<b>housing colour</b>	White	White	White
	<b>type of protection</b>	IP20	IP20	IP20
Note	<b>protection class</b>	class II	class II	class II
	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



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