# Constant Voltage LED Power Supply

SLD75-24VLD-E



## 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 (24VDC) connected in parallels.

The built-in protection circuit will shut down the power supply in case of such faults as: short circuit, over load or over temperature. 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

## **Characteristics:**

- Independent power supply for constant voltage LED lamp
- Class II protection against electric shock from direct and indirect contact
- SELV output
- Ripple free all dimming range
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- 5-100% dimming range by DALI or PUSH DIM
- Efficiency: 90.0% (AC230V, full load)

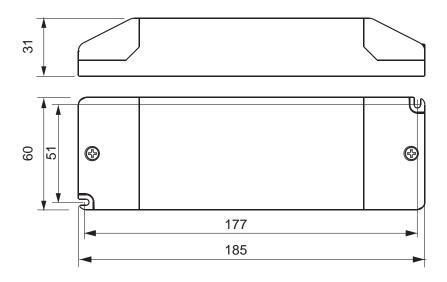


# Specifications:

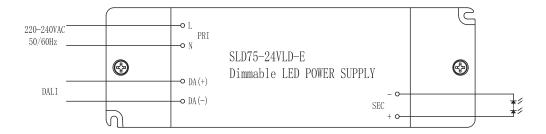
Tum on time(\$)	Model		SLD75-24VLD-E				
Output votage(V)         24           output votage tolerance         +/-5%           ripple votage(mV)         500(Vp-p)           working current range(A)         0.08-3.13A           dimming interface         DALI           dimming range         5-100%           rated supply vottage(Vac)         220-240           vottage range(Vac)         198-264           line frequency(Hz)         50/60           line frequency(Hz)         50/60           linput current(mA)         380           efficiency         90.0%           average efficiency         89%           no load power consumption(W)         50.5           power factor         0.95           inrush current(fpk)         27A/330us           over voltage protection         YES           short circuit protection         YES           over load protection         YES           over load protection         YES           automatic restart         YES           over load protection         YES           surge capacity         L-N: 1KV           Ta(C)         85           Storage Temperature(C)         -3080           ambient humidity range         5%85%RH, Not condensi	turr	urn on time(S)	≤]				
output voltage tolerance   ripple voltage(mV)   working current range(A)   0.08-3.13A   0.08-3.	out	output power(W)	75				
Protection   Protection   Protection   Protection   Arnbient and Life   Storage Temperature (℃)   Storage Temperature (ℂ)   Storage Temperature (	out	output votage(V)	24				
Input   Inp	out	output voltage tolerance	+/-5%				
dimming interface   DALI	Output rips	ipple voltage(mV)	500(Vp-p)				
Input	woi	working current range(A)	0.08-3.13A				
Input	dim	dimming interface	DALI				
voltage range(Vac)   198-264     line frequency(Hz)   50/60     input current(mA)   380     efficiency	dim	imming range	5-100%				
Iline frequency(Hz)   50/60	rate	ated supply voltage(Vac)	220-240				
Input   Input current(mA)   380	volt	voltage range(Vac)	198-264				
efficiency   90.0%     average efficiency   89%     no load power consumption(W)   ≤0.5     power factor   0.95     inrush current(lpk)   27A/330us     over voltage protection   YES     short circuit protection   YES     over lead protection   YES     automatic restart   YES     over load protection   YES     strage capacity   L-N: 1KV     Ta(C)   -2045     To max.(C)   85     Storage Temperature(C)   -3080     ambient humidity range   5%85%RH, Not condensing     nominal life-time(hrs)   50000@Tc=85 C     guarantee(years)   5     MTBF(hrs)   100′0000     audible noise(dB)   <25dB     weight(g)   420     dimensions (LxWxH)(mm)   185×60×31     casing material   Plostic     housing colour   Grey+Blue	line	ine frequency(Hz)	50/60				
### efficiency ● ### 90.0%    average efficiency ● ### 89%   no load power consumption(W)	Input inp	nput current(mA)	380				
no load power consumption(W)  power factor ○ inrush current(lpk)  over voltage protection  short circuit protection  automatic restart  over load protection  surge capacity  Ambient and Life		efficiency 2	90.0%				
Protection   Pr	ave	average efficiency s	89%				
Inrush current(lpk)   27A/330Us	no	no load power consumption(W)	≤0.5				
over voltage protection         YES           short circuit protection         YES           over temperature protection         YES           automatic restart         YES           over load protection         YES           surge capacity         L-N: 1KV           Ta(C)         2045           Tc max.(C)         85           Storage Temperature(C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85 C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (L×WxH)(mm)         185×60×31           casing material         Plostic           housing colour         Grey+Blue	pov	oower factor <sup>2</sup>	0.95				
## short circuit protection   YES	inru	nrush current(lpk)	27A/330us				
Protection         VES           automatic restart         YES           over load protection         YES           surge capacity         L-N: 1KV           Ta(C)         -2045           Tc max.(C)         85           Storage Temperature(C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85'C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (L×W×H)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	OVE	over voltage protection	YES				
Protection           automatic restart         YES           over load protection         YES           surge capacity         L-N: 1KV           Ta(°C)         -2045           Tc max.(°C)         85           Storage Temperature(°C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85°C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plostic           housing colour         Grey+Blue	sho	short circuit protection	YES				
automatic restart         YES           over load protection         YES           surge capacity         L-N: 1KV           Ta(C)         -2045           Tc max.(C)         85           Storage Temperature(C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85 C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plostic           housing colour         Grey+Blue		over temperature protection	YES				
Surge capacity   L-N: 1KV		automatic restart	YES				
Ta(C)	ove	over load protection	YES				
Ambient and Life         Storage Temperature(C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85 C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	sur	surge capacity	L-N: 1KV				
Ambient and Life         Storage Temperature(°C)         -3080           ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50′000@Tc=85 °C           guarantee(years)         5           MTBF(hrs)         100′0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	Ta(	Г <b>а</b> (°С)	-2045				
ambient humidity range         5%85%RH, Not condensing           nominal life-time(hrs)         50'000@Tc=85 C           guarantee(years)         5           MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (L×W×H)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	Тс	Γc max.(℃)	85				
### ambient humidity range   5%85%RH, Not condensing		Storage Temperature(℃)	-3080				
guarantee(years)   5     MTBF(hrs)   100'0000     audible noise(dB)   <25dB     weight(g)   420     dimensions (LxWxH)(mm)   185×60×31     casing material   Plastic     housing colour   Grey+Blue	nd Life am	ambient humidity range	5%85%RH, Not condensing				
MTBF(hrs)         100'0000           audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	nor	nominal life-time(hrs)	50'000@Tc=85°C				
audible noise(dB)         <25dB           weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	gue	juarantee(years)	5				
Weight(g)         420           dimensions (LxWxH)(mm)         185×60×31           casing material         Plastic           housing colour         Grey+Blue	MT	VITBF(hrs)	100'0000				
Other  dimensions (LxWxH)(mm)  casing material  housing colour  185×60×31  Plastic  Grey+Blue	auc	audible noise(dB)	<25dB				
Other casing material Plastic housing colour Grey+Blue	wei	veight(g)	420				
Other housing colour Grey+Blue	dim	imensions (L×W×H)(mm)	185×60×31				
housing colour Grey+Blue	cas	asing material	Plastic				
type of protection IP20		nousing colour	Grey+Blue				
	typ	ype of protection	IP20				
protection class ClassII	pro	protection class	ClassII				
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 rated current and then computing the simple arithmetic erage of these four values.  4. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 ambient temperature. 5. The power supply is considered as a component that will be operated in combination with final equi Since EMC performance will be affected by the complete installation, the final equipment manufactur re-qualify EMC Directive on the complete installation again."	2.1 3.0 rat Note 4.7 am 5.1 Sin	<ol> <li>Tested at full load,230Vac.Re</li> <li>Calculate the model's average rated current and then comput</li> <li>All parameters NOT specially ambient temperature.</li> <li>The power supply is considered since EMC performance will be</li> </ol>	ac.Refer to "Power Factor" and "EFFICIENT" curve graphs. average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of amputing the simple arithmetic erage of these four values. cially mentioned are measured at nominal voltage input, rated load and 25 of assidered as a component that will be operated in combination with final equipment. will be affected by the complete installation, the final equipment manufacturers must				



# Dimensions: mm

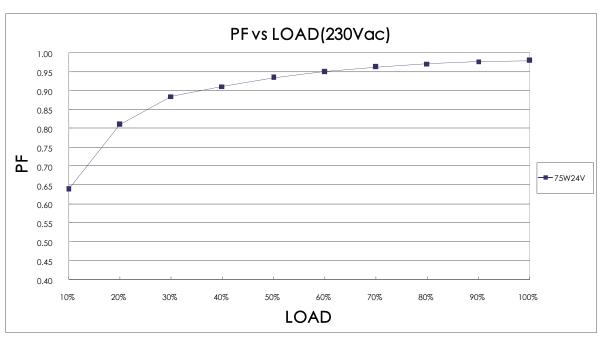


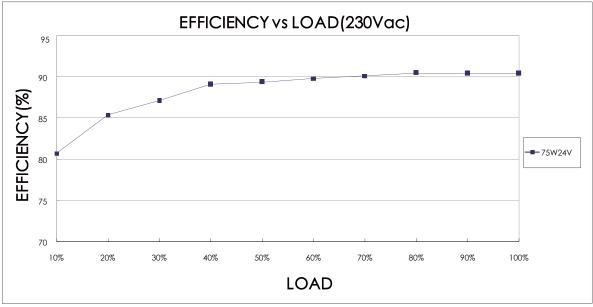
# Wiring diagram:





# Electrical curves:





#### note

For constant current power supply,"LOAD" means the percentage of the maximum rated output voltage. For constant voltage power supply,"LOAD" means the percentage of the maximum rated output current.



# MCBS information:

Miniature circuit breaker Model Model	B10	B13	B16	B20	C10	C13	C16	C20	
SLD75-24VLD-E	9	11	14	18	15	18	25	30	

### Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
1001-610158-0130	SLD75-24VLD-E	30	340x210x235	15

# Sales & Technical Support:

### **SELF Electronics Co.,Ltd.(Headquarters)**

Add: No. 1345 JuXian Road, Ningbo Hi Tech Park, Ningbo, China 315103 Phone: +86-574-2880-5765, +86-574-2880-5658 (for English assistance) +86-574-2880-5678 (for Chinese assistance)

Fax: +86-574-28805656 E-mail: sales@self-electronics.com http://www.self-electronics.com

#### Self Electronics Co.,Ltd.,Shenzhen Office

Add:Room2007, Xinglang Xuan, Xinghemingju, Fuming Rd., Futian District, Shenzhen Tel:+86-755-8355-8850 Fax:+86-755-8355-8840 E-mail:szsales@self-electronics.com

#### **SELF Electronics Germany GmbH**

August-Horch-Str. 7,51149 Cologne Phone: +492203-18501-0 Fax: 492203-18501-199 E-mail: saleseu@self-electronics.com



<sup>\*</sup>Due to continuous improvements and innovations, specifications are subjected to change without notice.