



Constant Current LED Power Supply

Model no: LD25/450-600/42 SC

Model no: LD25/450-600/42 SR

Constant Current Driver



Product description

- Current ripple: $\pm 5\%$
- Protection: Open Circuit/ Short Circuit/ Overload/ class II
- Start time: $< 0.5s/220V$
- Ambient Temp: $-20\sim 50^{\circ}C$
- Storage Temp: $-40\sim 80^{\circ}C$
- 5 Years Warranty
- Certificates: CCC/CE/ENEC/EAC/RCM/KC/UKCA
- Application: Down Light, Panel Light, Track Light
- Size: 97 x 43 x 22.8mm (SC Version) and 131.2 x 43 x 22.8mm (SR Version)
- Removable Cord Grip for Built-In or Independent Use



1. Specific data

Model	Pin 1	Pin 2	I _{rated} [mA]	P _{rated} [W]	U _{rated} [V]	UN/fN	I _{in} [A]	T _c [°C]	λ
LD25/450-600/42 SC/SR	OFF	OFF	450	18.9	24-42	220-240V 50/60Hz	0.11	85	0.95
	ON	OFF	500	21.0	24-42	220-240V 50/60Hz	0.12	85	0.95
	OFF	ON	550	23.1	24-42	220-240V 50/60Hz	0.13	85	0.95
	ON	ON	600	25.2	24-42	220-240V 50/60Hz	0.14	85	0.95

1. Output current is mean value
2. Test result at 25°C.

2. Technical data

Item	Feature / Technical Norm
Output Type	Constant Current
IP Grade	IP20
Output Features	Isolation
Insulation Class	Class II

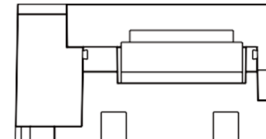
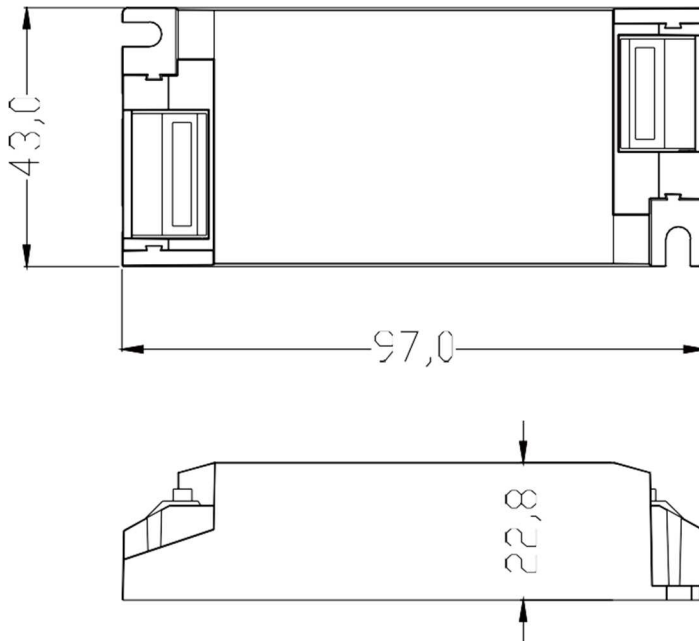


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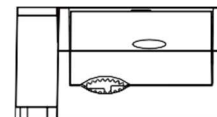
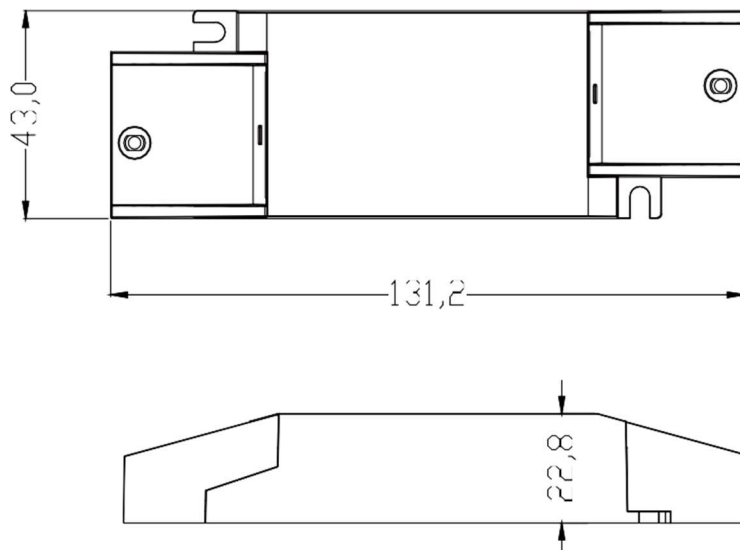
Input	Rated Input Voltage	220-240VAC
	Range of Input AC Voltage	198-264VAC
	Range of Input DC Voltage	N/A
	Frequency	50/60Hz
	Input Current	≤0.15A (230VAC, full load)
	Input Power	≤31.7W (230VAC, full load)
	Typ. efficiency	>86% (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Current Accuracy	±7.5%
	Max. Output Power	27.1W
	Max. Output Voltage (Uout)	59V
	Started Delay Time	≤0.5s (230VAC, full load)
	Current Ripple	±5% (Imax-Imin) / (Imax+Imin)
	PSTLM	≤1
	SVM	≤0.4
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Overvoltage protection	320AC,48h
	Insulation voltage	I/P to O/P, 3.75KVac/1min
	Leakage current	< 450μA
Environment	Ta/Operation Temperature	-20...+50°C
	Ts/Storage Temperature	-40...+80°C
	Tc/Enclosure Temperature	85°C
	Humidity	5% ... 95%RH
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5"
	SEC Wire preparation	0.5-1.5"
	Dimension	97*43*22.5mm / 131.2 x 43 x 22.8mm (L*W*H)
Standards	Certification	CCC/CE/ENEC/EAC/RCM/KC/UKCA
	Safety Standards	EN61347-1, EN61347-2-13, EN61547, EN60950-1
	EMC Standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547
	Performance	EN62384
	Surge	L-N:1.2KV
Others	RoHS	Complied to 2011/65/EU
	Lifetime	50000h Ta=40°C
		30000h Ta=50°C
	A-weighted sound level at 30cm	<25dbA

3. Drawing of dimension

LD25/450-600/42 SC



LD25/450-600/42 SR



4. Drawing of Label



YTL SMART SYSTEMS

YTL Smart Systems GmbH
Birkenecker Str.9,
85399 Hallbergmoos Germany

LD25/450-600/42 SC

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PIN1	PIN2	I _{rated} (mA)	P _{rated} (W)	U _{rated} (V)	U _N /f _N	I _N (A)	t _a (°C)	t _c (°C)	λ
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ON	ON	600	25.2			0.14			

— ●

+ ●

SEC ---
U_{out}=55V
LED Only

PRI~

OFF-ON

1 ☐
 2 ☐

● L

● N

CE EAC SELV

M M

⊙

⊕

⊗

House icon

wire preparation

8mm wire 0.5-1.5

Made in China



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LD25/450-600/42 SR

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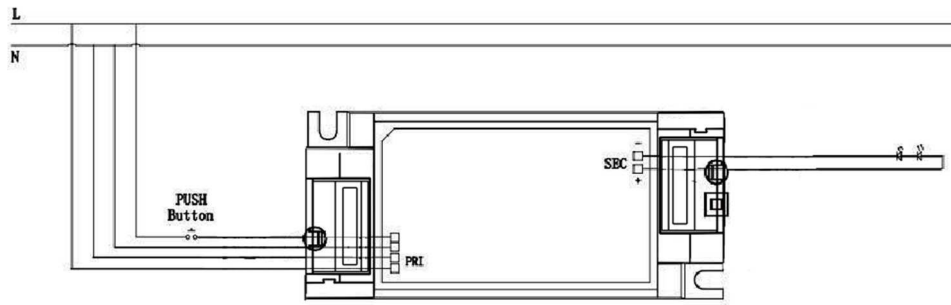
House icon

wire preparation

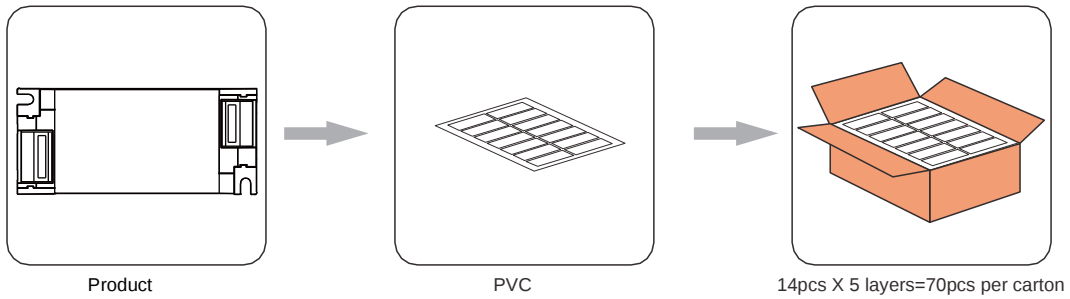
8mm wire 0.5-1.5

Made in China

5. Wiring Diagram



6. Drawing of dimension



Model	Carton L*W*H (mm)	Pcs/Carton	Net weight/Pcs (kg)	Net weight/Carton (kg)	Gross weight/Carton (kg)
LD25/450-600/42 SC	395*295*125	70	0.088	6.14	8.14
LD25/450-600/42 SR	395*295*125	70	0.103	7.21	9.21

7. Revision history

Date	Revision	Remark
2022/9/5	01	Preliminary Edition
2023/2/5	02	Update for Packaging Information