

DATASHEET

50W Non-flickering 1-10V/Push Dimmable LED Driver

LD50C-PVH



- Flicker-free for whole dimming range
- Hot pluggable – load can be directly attached to output
- Stand-by power below 0.5W
- Primary & secondary dimming with push button
- 1-10V dimming
- Dim via a potentiometer
- Protection: short circuit / over temperature/ over voltage
- Derating current for over high ambient temperature.
- Dimming level memory at mains restores
- Multi-output currents set via dip switches



[Data]

INPUT	Input voltage	220-240Vac
	Input frequency	50Hz/60Hz
	Input current	0.26A
	Power factor (Note 1)	≥0.9
	Efficiency (Note 1)	≥87%
	Stand-by power (Note 3)	≤0.5W
OUTPUT	Constant current mode	350mA 6~60V DC 21W max 500mA 6~58V DC 29W max 550mA 6~58V DC 32W max 650mA 6~58V DC 38W max 700mA 6~58V DC 41W max 750mA 6~56V DC 42W max 850mA 6~56V DC 48W max 900mA 6~56V DC 50W max 1050mA 6~48V DC 50W max
	Constant voltage mode	12V DC 0-1050mA 12.6 max 24V DC 0-1050mA 25.2W max
	No-load output voltage	68VDC MAX.
	Current accuracy	±5%
DIMMING	1-10V dim	Yes, port-current <1 mA
	Push dim	Yes
	Potentiometer	Yes, 100kΩ
	Flickering rate	<2% from 3%-100% dimming
	Supportable cable length	2m Max. between driver and fixture

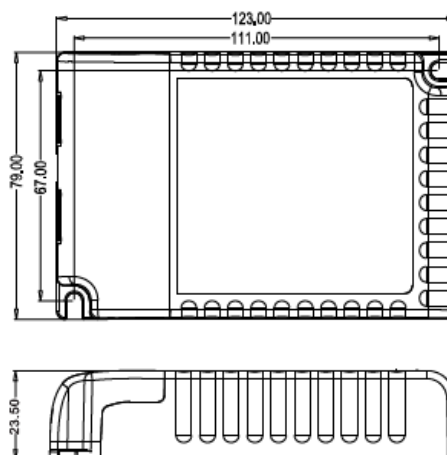
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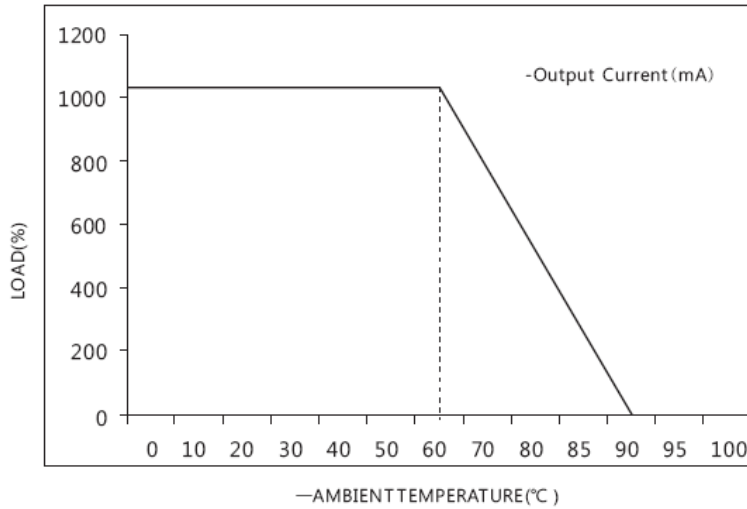
	Supportable signal wire length	20m Max. between dimmer and dim interface
ENVIRONENT	Working temp.(Ta)	-25°C~50°C
	Surface temp.(Tc)	85°C
	Working humidity	85% Non-condensing
	Storage temp.	-40°C~80°C
	Life time	50,000 hours
PROTECTION	Isolation class	Class I
	Protection class	IP20
	Over voltage	300Vac, 2h
	Short circuit	Protection type; auto rest
	No load	Protection type; auto rest
	Over temperature	Protection type; auto rest
OTHERS	Safety	EN61347-1 EN61347-2-13
	EMC	EN55015, EN61000-3-2, EN61547, EN61000-3-3
	Approvals	Semko, CE, RoHS
	Withstand voltage	IN-OUT:3.75KVAC/5mA/60s
	Dimension (LxHxW)	123x79x23.8mm
	Connection	Press-in type terminals, 0.75-1.5mm ² Input: L, N, PUSH, PE Output: SEC(+),SEC(-), 1-10V(+),1-10V(-)
Note: 1. Power factor and efficiency is detected at 230Vac input and full load. 2. Standby power is detected at 230Vac input and switch off led load by push button.		

[Dimensions]



unit:mm

[Derating]



[Push and 1-10V dimming]

1) Push button switch for dimming (see wiring diagram, Fig A & B)

- ON/OFF: Short push (120ms~1sec) on the switch.
- Stepless dimming: Long push (>1sec) on the switch. With every other long push, the light level goes the opposite direction.
- Synchronization: No need additional synchrony wire in larger installation, up to 15pcs drivers when connected to the same switch.

2) 1-10V dimming (see wiring diagram, Fig C)

The driver supports any active 1-10V dimmer. When the dimming signal is less than 0.8V~1V or short the dimming wires, the output of LED driver could be completely switch off. See 1-10V Dimming curve.

[Wiring diagram]

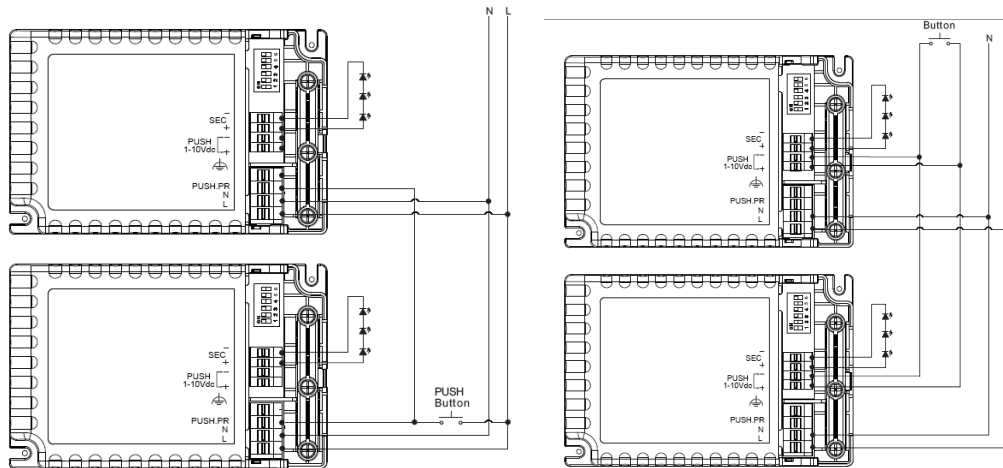


Fig. A Primary Push Dim

Fig. B Secondary Push Dim

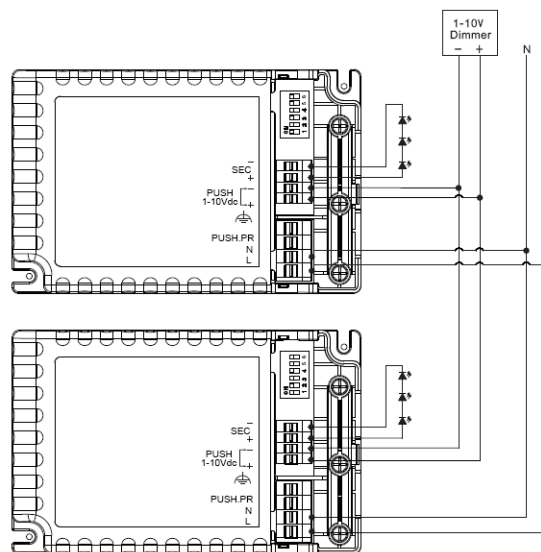


Fig. C 1-10V dim