

# ML30V-PV, ML75V-PV, ML75V-PV1 12V/24V 1-10V/PUSH Dimmable LED Driver



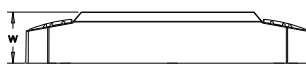
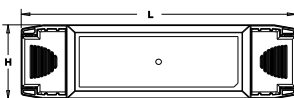
- Smooth dimming most with leading edge or trailing edge dimmer
- For 12/24V dc constant voltage LEDs
- Quick connection terminals and upper cover.
- Loop-in and loop-out of mains voltage.
- Short-circuit/ Overload /Overheat protection
- Smooth dimming with 1-10V dimmer and push button.
- Customized min dimming level by key
- Dimming level memory at mains restores.
- 5-year warranty



## SPECIFICATIONS

Model	ML30V-PV, 1x30W	ML75V-PV, 1x75W	ML75V-PV1, 1X75W
Rated voltage	220-240V AC, 50/60Hz	220-240V AC, 50/60Hz	220-240V AC, 50/60Hz
Input current	0.3A max.	0.5A max.	0.5A max.
Power factor	>0.9	>0.9	>0.9
Output voltage	12V DC	12V DC	24V DC
Output current	2.5A	6.25A	3.125A
Operating temperature	Ta: 45°C Tc: 85°C	Ta: 45°C Tc: 85°C	Ta: 45°C Tc: 85°C
Abnormal protection	Output short-circuit protection auto rest after mains restart	Output short-circuit protection auto rest after mains restart	Output short-circuit protection, auto rest after mains restart
Overheating protection	Overheating protection auto rest after mains restart	Overheating protection, auto rest after mains restart	Overheating protection, auto rest after mains restart
EMC standard	EN55015, EN61547	EN55015, EN61547	EN55015, EN61547
Safety standard	EN61347-1, EN61347-2-13	EN61347-1, EN61347-2-13	EN61347-1, EN61347-2-13
Certification	CE	CE	CE
Dims(L x W x H)	150x 52x 30 mm	202 x 58 x 40 mm	202 x 58 x 40 mm
IP rating	IP20, indoor use only	IP20, indoor use only	IP20, indoor use only

## APPLICATION



1-10V Dim



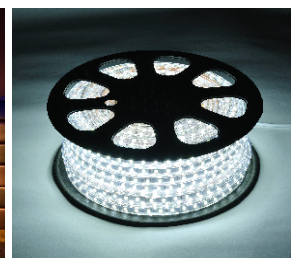
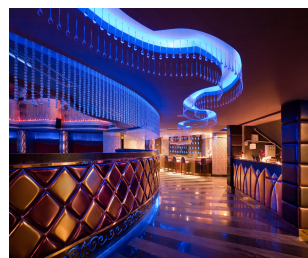
Push dim



Dimming level memory at mains restore



5 Years Guarantee



## OUTPUT SELECTION

### PUSH BUTTON SWITCH FOR DIMMING

- Primary push dimming is prior and always active.
- On/Off: Short push on the switch
- Stepless dimming: Long push on the switch. With every other long push, the light level goes the opposite direction.
- Built-in with permanent memory: Light returns to the previous dimming level when switched off and on again, even at power failure.

### MIN DIMMING LEVEL SETTING (Fig. A)

- Turn on the driver and dim to the required minimum dimming level. Short push the key to remember the min level.
- Long push (>3 sec) the key can restore the factory default setting. Factory setting of min. dimming level is 2%

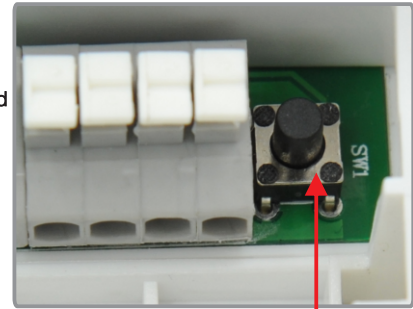


Fig. A

Min. dim level setting

### 1-10V DIMMER (Fig. B -C)

- Factory setting: 1-10V dimming.
  - Note! Using primary push dimming will make 1-10V dimming inactivated. It has to handle as following steps when change push dimming to 1-10V dimming.
- 1, Turn off the LED driver and short circuit 1-10V interface, then power on LED driver for at least 5 seconds.
  - 2, Remove short-circuit of 1-10V and power on, 1-10V dimming is active.

### SYNCHRONIZATION

No need additional synchrony wire in larger installations, up to 15pcs drivers when connected to the same switch.

Ignore	To avoid reaction on AC spike	<0.05sec
Short push	Turn on or off	0.1~1sec
Long push	Dimming up or down	1.5-10sec

Note! Continuously short push with an interval less than 1 sec may cause different dim level as MCU couldn't respond to the fast signal change. For the resynchronization to work correctly when more than one driver is connected to the same push button, please follow the steps below:

- Press the push button for more than one second(long push), followed by a short push(<1s).
- Now that the devices are switched off, do a long push, the system will now be resynchronized.

## WIRING SCHEME

