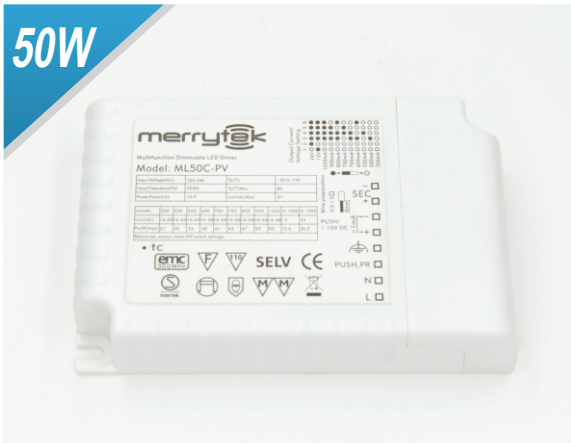


ML50C-PV Multifunction Dimmable LED Driver

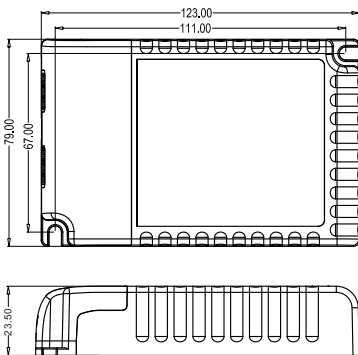
50W



- Multi output current and voltage selectable via DIP switch
- Primary and secondary dimming with PUSH button
- Secondary dimming with 1-10V dimmer
- Protection: Short circuit / Over voltage / Over temperature
- Press-in terminals in primary and secondary side, easy assembly
- Dimming level memory at mains restores.
- Power supplies synchronization function up to 15 units.



SPECIFICATIONS



unit:mm

| | |
|--------------------------------|--|
| Model | ML50C-PV, 1x50W |
| Rated voltage | 220-240V AC, 50/60Hz |
| Input current | 0.26A max. |
| Power factor | >0.9 |
| Output voltage | 67V DC max. |
| Operating temperature | Ta: 50°C Tc: 85°C |
| Output current /voltage & load | 350mA 16~60V DC 21W max 500mA 16~60V DC 30W max 550mA 16~60V DC 33W max 650mA 16~58V DC 38W max 700mA 16~58V DC 41W max 750mA 16~56V DC 43W max 850mA 16~56V DC 47W max 900mA 16~56V DC 50W max 1050mA 16~48V DC 50W max 12V DC 0-1050mA 12.6W max 24V DC 0-1050mA 25.2W max |
| Abnormal protection | Output short-circuit protection with auto reset |
| Overheating protection | Overheating protection with auto rest |
| EMC standard | EN55015, EN61547 |
| Safety standard | EN61347-1, EN61347-2-13 |
| Certification | SEMKO, CE |
| Dims | 123 x 79x 23.5 mm |
| Protection class | IP20, built-in type |

APPLICATION



1-10V Dim



Push dim



Dimming level memory at mains restore



Optional output current



5 Years Guarantee



OUTPUT SELECTION

CONNECTION

1. Start with setting the output current/voltage. The current/voltage can be easily configured by choosing the correct combination of the DIP switches (see table, fig. A).
2. Select the applicable dimming mode by jumper (see fig. B).

PUSH BUTTON SWITCH FOR DIMMING (Fig. C and D)

- Primary push dimming is always active, except when the jumper is on J3.
- Secondary push dimming is active when the jumper is on J2.
- 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.

1-10V DIMMER (Fig. E)

- Factory setting: 1-10V dimming, jumper is on J1.
 - Note! Using primary or secondary push dimming will make 1-10V dimming inactivated. It has to move jumper as following steps when change push dimming to 1-10V dimming.
- 1, Turn off the LED driver and move the jumper to J3, then power on LED driver for at least 3 seconds.
 - 2, Disconnect the LED driver from the power. Move the jumper to J1. Then, 1-10V dimming is active.

| | | | | | | | |
|-----|---|---|---|---|---|---|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| ON | ○ | ○ | ● | ● | ● | ● | 24V |
| | ● | ○ | ○ | ○ | ○ | ○ | 12V |
| | ○ | ○ | ○ | ○ | ○ | ○ | 1050mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 900mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 850mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 750mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 700mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 650mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 600mA |
| OFF | ○ | ○ | ○ | ○ | ○ | ○ | 500mA |
| | ○ | ○ | ○ | ○ | ○ | ○ | 360mA |

Fig. A

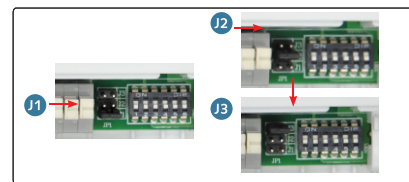


Fig. B

SYNCHRONIZATION

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

WIRING SCHEME

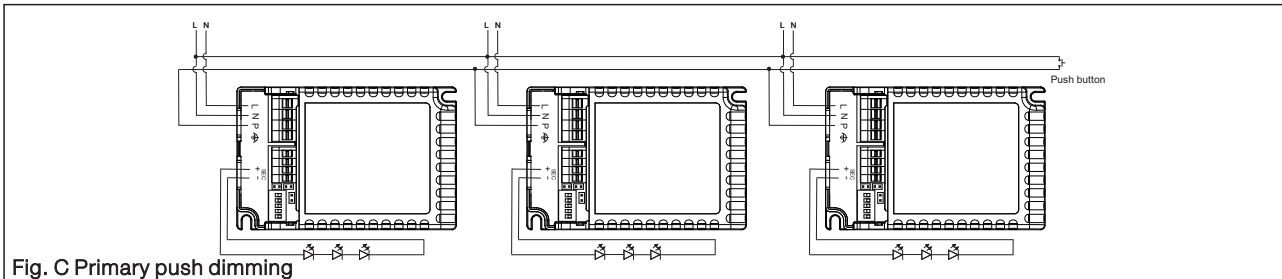


Fig. C Primary push dimming

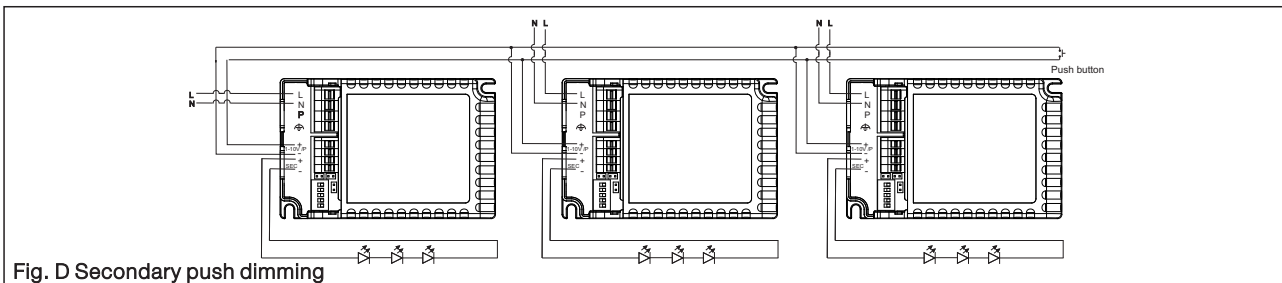


Fig. D Secondary push dimming

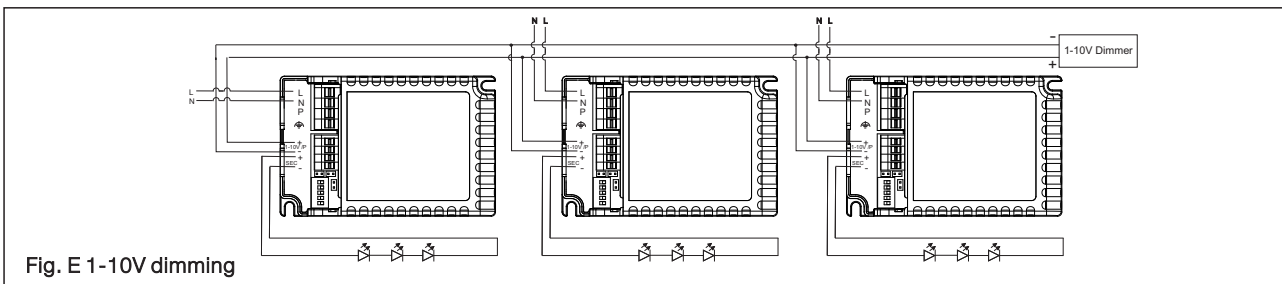


Fig. E 1-10V dimming