

LED Drivers with different phase-cut dimmers

CAUTION!

The maximum number of LED Drivers per dimmer is defined by the power of the LED Driver and the dimmer:

- _ The total power of all connected LED Drivers must not exceed 50 % of the power of the dimmer.

Example:

- _ Power of dimmer: 600 W -> 50 % power: 300 W
- _ Power of LED Driver: 15 W
- _ Maximum number of LED Drivers: $300 \text{ W} : 15 \text{ W} = 20$ devices

LED Drivers with different phase-cut dimmers

Values for dimmers at full load

Product name	Article number	Dimmer type ¹	LED Drivers per dimmer	Noise rating ²	Flicker rating ³	Other issues ⁴	
DSI - PCD/S	22 154 333	leading-edge and trailing-edge	1-25	2	1	1x LCBI - no function 2x LCBI - function	1x LCBI
DALI - PCD/S	22 154 332	leading-edge and trailing-edge	1-25	2	1	same behaviour as DSI - PCD/S, no proper turn on	
DALI - PCD 300 one4all	86 458 303	leading-edge and trailing-edge	1-7	2	1	sometimes no proper turn on, turn on via DALI or switchDIM	
DALI - PCD 1-300 one4all	28 000 441	leading-edge and trailing-edge	1-7	3	1	no proper switchDIM function	
DSI - PCD/S	22 154 333	leading-edge and trailing-edge	2-25	3	1	no proper turn on	8x LCBI
DALI - PCD/S	22 154 332	leading-edge and trailing-edge	2-25	3	1	no proper turn on	
DALI - PCD 300 one4all	86 458 303	leading-edge and trailing-edge	2-7	3	1		
DALI - PCD 1-300 one4all	28 000 441	leading-edge and trailing-edge	2-7	3	1	no proper switchDIM function	

Explanation:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Noise evaluation: 1 (very little noise) -> 4 (strong noise).
Noise evaluation was only carried out for full load. Values for minimum load are less critical. For reference refer to full load.
3. Flicker evaluation: 1 (no flicker) -> 4 (strong flicker)
4. Other issues: description of the issue.
ZSL-UP is an additional circuit that can improve the dimming behaviour of specific lamps.