

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: $300 \text{ W} : 15 \text{ W} \leq 20$ devices

LED Drivers with different phase-cut dimmers

Values for dimmers at full load: 20v_350mA

Product name	Article number	Dimmer type ¹	LED Drivers per dimmer	Linearity	Noise rating ²	Flicker rating ³	Min dimming level	Summary ⁴
Busch	6523 U-102	universal	1-21	1	1	1	9%	advisable
Berker	283010	leading	1-20	5	1	1	27%	not useful
Clipsal	32E450TM	trailing	1-22	1	1	1	8%	advisable
Clipsal	32E450UDM	universal	1-22	1	1	1	9%	advisable
ELKO	316GLED	trailing	1-15	1	1	1	8%	advisable
ELKO	315GLE-2Pole	trailing	1-15	1	1	1	10%	advisable
ELKO	315GLE	trailing	1-15	1	1	1	4%	advisable
Feller	40200.LED.F.61	universal	1-10	1	1	1	7%	advisable
GIRA	117600/I01	trailing	1-21	1	1	1	10%	advisable
JUNG	225 TDE	trailing	1-26	1	1	1	8%	advisable
JUNG	225NVDE	leading	1-5	1	1	2	6%	advisable
JUNG	254 UDIE 1	universal	1-29	1	1	1	6%	advisable
Niko	325	universal	1-16	1	1	1	8%	advisable
SAL	SDA450	trailing	1-22	1	1	1	8%	advisable
SAL	SDD350	trailing	1-17	1	1	1	10%	advisable
Siemens	5TCB 257	leading	1-25	1	1	2	10%	advisable
Clipsal	32ELEDM	trailing	1-20	1	1	2	10%	advisable
DIGINET/ MMDM	04-B3218-H	trailing	1-20	1	1	2	5%	advisable

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DIGINET/ MEDM	04-B1218-D	trailing	1-20	1	1	2	9%	advisable
SG Bluetooth	820322	trailing	1-20	1	1	2	6%	advisable
GIRA	30200	leading	1-29	5	1	2	23%	not useful
	1607	leading	1-20	5	1	2	26%	not useful
	6523U	leading	1-10	1	1	2	0%	advisable
Sunny	SDD400U	trailing	1-20	1	1	2	11%	advisable
Clipsal	31E2PUDM	trailing	1-20	1	1	2	11%	advisable
Trader	DIMR Trader Dimpala Eclipse	trailing	1-20	1	1	2	0%	advisable
Ansell	Orbio 360 LED	leading	1-18	1	1	2	26%	advisable
SCHNERDER	SBD315RC	trailing	1-15	1	1	2	5%	advisable
VARILIGHT	JQP401W	trailing	1-15	1	1	2	7%	advisable
MK	K1521 WHILV		1-15	1	1	2	12%	advisable

LED Drivers with different phase-cut dimmers**Values for dimmers at min load: 3v_350mA**

Product name	Article number	Dimmer type ¹	LED Drivers per dimmer	Linearity	Noise rating ²	Flicker rating ³	Min dimming level	Summary ⁴
Busch	6523 U-102	universal	1-57	1	1	1	11%	advisable
Berker	283010	leading	1-55	5	1	1	28%	not useful
Clipsal	32E450TM	trailing	1-61	1	1	1	10%	advisable
Clipsal	32E450UDM	universal	1-61	1	1	1	9%	advisable
ELKO	316GLED	trailing	1-43	1	1	1	10%	advisable
ELKO	315GLE-2Pole	trailing	1-43	1	1	1	11%	advisable
ELKO	315GLE	trailing	1-43	1	1	1	6%	advisable
Feller	40200.LED.F.61	universal	1-27	1	1	1	9%	advisable
GIRA	117600/I01	trailing	1-57	1	1	1	10%	advisable
JUNG	225 TDE	trailing	1-72	1	1	1	11%	advisable
JUNG	225NVDE	leading	1-14	1	1	2	8%	advisable
JUNG	254 UDIE 1	universal	1-82	1	1	1	10%	advisable
Niko	325	universal	1-44	1	1	1	12%	advisable
SAL	SDA450	trailing	1-61	1	1	1	9%	advisable
SAL	SDD350	trailing	1-48	1	1	1	10%	advisable
Siemens	5TCB 257	leading	1-68	1	1	2	11%	advisable
Clipsal	32ELEDM	trailing	1-55	1	1	2	9%	advisable
DIGINET/ MMDM	04-B3218-H	trailing	1-55	1	1	2	9%	advisable

LED Drivers with different phase-cut dimmers

DIGINET/ MEDM	04-B1218-D	trailing	1-55	1	1	2	11%	advisable
SG Bluetooth	820322	trailing	1-55	1	1	2	10%	advisable
GIRA	30200	leading	1-82	5	1	2	28%	not useful
	1607	leading	1-55	1	1	2	10%	not useful
	6523U	leading	1-27	1	1	2	11%	advisable
Sunny	SDD400U	trailing	1-55	1	1	2	11%	advisable
Clipsal	31E2PUDM	trailing	1-55	1	1	2	10%	advisable
Trader	DIMR Trader Dimpala Eclipse	trailing	1-55	1	1	2	0%	advisable
Ansell	Orbio 360 LED	leading	1-49	5	1	2	29%	not useful
SCHNERDER	SBD315RC	trailing	1-43	1	1	2	9%	advisable
VARILIGHT	JQP401W	trailing	1-41	1	1	2	8%	advisable
MK	K1521 WHILV	trailing	1-41	5	1	2	30%	not useful

Explanation and rating definition:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Noise evaluation: 1 (very little noise) -> 5 (strong noise).
3. Flicker evaluation: 1 (no flicker) -> 5 (strong flicker)
4. Summary rating:
 advisable = no flicker and noise rating ≤ 3 ;
 average = shimmer or big step, noise rating ≤ 3 ;
 not good = flicker;
 not useful = strong flicker