

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

LCA 44W 700-1050mA flexC pc SR ADV (87500605) – Values for dimmers at 700 mA min. load, 230 V / 50 Hz

Product name	Article no.	Dimmer type ¹	Driver per dimmer	Noise rating ²	Flicker rating ³	Min. dimming level	Other issues ⁴
BerKer	283010	leading	–	3	4	4.9 %	Not useful
Busch	2247U	leading	–	3	3	13.2 %	Not useful
Busch Jaeger	6523U	leading	1-2	2	1	0.9 %	
CLIPSAL	32E450LM	leading	1-4	3	1	7.6 %	
CLIPSAL	32E450UDM	universal	1-10	1	1	6.5 %	
CLIPSAL	32E450TM	trailing	1-10	1	1	5.4 %	
CLIPSAL	L5508D1A	universal	-	4	4	0.0 %	Not useful
DIGINET	MMDM/PB	leading	1-8	2	1	0.0 %	
DIGINET	MEDM	leading	1-8	2	1	0.0 %	
ELKO	315GLE	trailing	1-5	1	1	1.7 %	
ELKO	316GLED	trailing	1-7	1	1	11.9 %	
Finder	15.91.8	leading	1-1	3	1	5.8 %	
GIRA	30200	leading	1-4	3	1	9.2 %	
GIRA	117600/I01	trailing	1-9	1	1	8.8 %	
Hager	EVN011	universal	1-7	1	1	4.1 %	
Hager	EVN012	universal	1-7	1	1	4.2 %	
Legrand	78405	leading	–	2	5	0.0 %	Not useful
Legrand	78401	trailing	1-9	1	1	0.0 %	
Niko	325	universal	1-7	2	1	0.0 %	
Schneider	40300 RC	trailing	1-6	1	1	7.6 %	

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Schneider	40600.RL	leading	1-13	2	1	10.2 %	
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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.

LED Drivers with different phase-cut dimmers

LCA 44W 700-1050mA flexC pc SR ADV (87500605) – Values for dimmers at 700 mA full load, 230 V / 50 Hz

Product name	Article no.	Dimmer type ¹	Driver per dimmer	Noise rating ²	Flicker rating ³	Min. dimming level	Other issues ⁴
BerKer	283010	leading	1-6	3	2	6.3 %	
Busch	2247U	leading	1-8	3	1	8.3 %	
Busch Jaeger	6523U	leading	1-1	2	1	0.3 %	
CLIPSAL	32E450LM	leading	1-5	3	1	4.1 %	
CLIPSAL	32E450UDM	universal	1-7	1	1	2.0 %	
CLIPSAL	32E450TM	trailing	1-7	1	1	1.4 %	
CLIPSAL	L5508D1A	universal	-	4	4	0.0 %	Not useful
DIGINET	MMDM/PB	leading	1-6	2	1	0.0 %	
DIGINET	MEDM	leading	1-6	2	1	0.0 %	
ELKO	315GLE	trailing	1-5	1	1	0.1 %	
ELKO	316GLED	trailing	1-5	1	1	8.8 %	
Finder	15.91.8	leading	1-1	2	1	2.2 %	
GIRA	30200	leading	1-9	3	1	4.9 %	
GIRA	117600/I01	trailing	1-6	1	1	3.4 %	
Hager	EVN011	universal	1-5	1	1	0.7 %	
Hager	EVN012	universal	1-5	1	1	2.0 %	
Legrand	78405	leading	2-5	2	1	0.0 %	
Legrand	78401	trailing	1-6	1	1	0.0 %	
Niko	325	universal	1-5	2	1	0.0 %	
Schneider	40300 RC	trailing	1-5	1	1	2.5 %	

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LED Drivers with different phase-cut dimmers

LCA 44W 700-1050mA flexC pc SR ADV (87500605) – Values for dimmers at 1,050 mA min. load, 230 V / 50 Hz

Product name	Article no.	Dimmer type ¹	Driver per dimmer	Noise rating ²	Flicker rating ³	Min. dimming level	Other issues ⁴
BerKer	283010	leading	1-6	3	1	10.5 %	
Busch	2247U	leading	1-8	3	1	13.0 %	
Busch Jaeger	6523U	leading	1-1	3	2	1.2 %	
CLIPSAL	32E450LM	leading	1-7	3	1	6.7 %	
CLIPSAL	32E450UDM	universal	1-7	2	1	4.5 %	
CLIPSAL	32E450TM	trailing	1-7	1	1	3.7 %	
CLIPSAL	L5508D1A	universal	-	4	4	0.0 %	Not useful
DIGINET	MMDM/PB	leading	1-6	2	1	0.0 %	
DIGINET	MEDM	leading	1-6	2	1	0.0 %	
ELKO	315GLE	trailing	1-5	2	1	0.8 %	
ELKO	316GLED	trailing	1-5	2	1	4.2 %	
Finder	15.91.8	leading	1-1	3	1	4.9 %	
GIRA	30200	leading	1-9	3	1	8.6 %	
GIRA	117600/I01	trailing	1-7	1	1	7.7 %	
Hager	EVN011	universal	1-5	3	1	2.1 %	
Hager	EVN012	universal	1-5	3	1	2.1 %	
Legrand	78405	leading	2-5	3	1	0.0 %	
Legrand	78401	trailing	1-6	2	1	0.0 %	
Niko	325	universal	1-5	2	1	0.0 %	
Schneider	40300 RC	trailing	1-5	2	1	4.8 %	

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LED Drivers with different phase-cut dimmers

LCA 44W 700-1050mA flexC pc SR ADV (87500605) – Values for dimmers at 1,050 mA full load, 230 V / 50 Hz

Product name	Article no.	Dimmer type ¹	Driver per dimmer	Noise rating ²	Flicker rating ³	Min. dimming level	Other issues ⁴
BerKer	283010	leading	1-4	3	1	8.1 %	
Busch	2247U	leading	1-5	3	1	8.9 %	
Busch Jaeger	6523U	leading	1-1	3	1	0.5 %	
CLIPSAL	32E450LM	leading	1-5	3	1	4.9 %	
CLIPSAL	32E450UDM	universal	1-5	2	1	2.4 %	
CLIPSAL	32E450TM	trailing	1-5	1	1	1.9 %	
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DIGINET	MMDM/PB	leading	1-4	2	1	0.0 %	
DIGINET	MEDM	leading	1-4	2	1	0.0 %	
ELKO	315GLE	trailing	1-3	2	1	0.3 %	
ELKO	316GLED	trailing	1-3	2	1	2.2 %	
Finder	15.91.8	leading	1-1	3	1	3.7 %	
GIRA	30200	leading	1-6	3	1	6.1 %	
GIRA	117600/I01	trailing	1-4	1	1	3.4 %	
Hager	EVN011	universal	1-3	3	1	1.0 %	
Hager	EVN012	universal	1-3	3	1	1.1 %	
Legrand	78405	leading	1-6	3	2	0.0 %	
Legrand	78401	trailing	1-4	2	1	0.0 %	
Niko	325	universal	1-3	2	1	0.0 %	
Schneider	40300 RC	trailing	1-3	2	1	2.3 %	

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