

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 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 180 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	-	2	5	N/A	Not useful
Busch	2247U	leading	-	3	5	0.7 %	Not useful
Busch Jaeger	6523U	leading	1-6	2	1	0.7 %	
CLIPSAL	32E450LM	leading	2-3	4	1	8.8 %	
CLIPSAL	32E450UDM	universal	1-27	1	1	11.4 %	
CLIPSAL	32E450TM	trailing	1-27	1	1	9.3 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-20	2	1	0 %	
DIGINET	MEDM	leading	1-20	2	1	0 %	
ELKO	315GLE	trailing	1-5	1	1	3.8 %	
ELKO	316GLED	trailing	1-20	1	1	25.5 %	
Finder	15.91.8	leading	1-2	2	1	5.6 %	
GIRA	30200	leading	1-3	3	1	8.1 %	
GIRA	117600/I01	trailing	1-26	1	1	0.1 %	
Hager	EVN011	universal	2-18	1	1	18.4 %	
Hager	EVN012	universal	2-18	1	2	19.0 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	-	2	5	N/A	Not useful
Niko	325	universal	1-20	3	1	0.1 %	
Schneider	40300 RC	trailing	1-19	1	1	14.2 %	

LED Drivers with different phase-cut dimmers

Schneider	40600.RL	leading	2-4	3	1	9.8 %	
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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 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 180 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	2-4	2	1	5.3 %	
Busch	2247U	leading	2-4	3	1	2.4 %	
Busch Jaeger	6523U	leading	1-5	2	1	0.1 %	
CLIPSAL	32E450LM	leading	2-9	3	1	4.2 %	
CLIPSAL	32E450UDM	universal	1-20	1	1	4.2 %	
CLIPSAL	32E450TM	trailing	1-20	1	1	3.0 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-16	2	1	0 %	
DIGINET	MEDM	leading	1-16	2	1	0 %	
ELKO	315GLE	trailing	1-3	1	1	1.7 %	
ELKO	316GLED	trailing	1-14	1	1	20.9 %	
Finder	15.91.8	leading	1-2	2	1	1.8 %	
GIRA	30200	leading	1-3	3	1	4.0 %	
GIRA	117600/I01	trailing	1-19	1	1	0.1 %	
Hager	EVN011	universal	1-14	1	1	1.0 %	
Hager	EVN012	universal	1-14	1	1	12.6 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	1-18	2	2	0.1 %	
Niko	325	universal	1-15	3	1	0.1 %	
Schneider	40300 RC	trailing	1-14	1	1	7.8 %	

LED Drivers with different phase-cut dimmers

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4. Other issues: description of the issue.
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LED Drivers with different phase-cut dimmers

LCA 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 250 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	-	2	5	N/A	Not useful
Busch	2247U	leading	1-4	3	1	9.2 %	
Busch Jaeger	6523U	leading	1-5	2	1	0.6 %	
CLIPSAL	32E450LM	leading	2-4	3	1	6.9 %	
CLIPSAL	32E450UDM	universal	1-20	1	1	8.6 %	
CLIPSAL	32E450TM	trailing	1-20	1	1	7.0 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-20	2	1	0 %	
DIGINET	MEDM	leading	1-20	2	1	0 %	
ELKO	315GLE	trailing	1-5	1	1	2.3 %	
ELKO	316GLED	trailing	1-14	1	1	19.8 %	
Finder	15.91.8	leading	1-2	2	1	5.0 %	
GIRA	30200	leading	1-3	2	1	6.8 %	
GIRA	117600/I01	trailing	1-19	1	1	11.9 %	
Hager	EVN011	universal	1-14	1	1	3.7 %	
Hager	EVN012	universal	1-14	1	1	3.8 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	2-18	3	1	0.1 %	
Niko	325	universal	1-15	3	1	0.1 %	
Schneider	40300 RC	trailing	1-14	1	1	11.0 %	

LED Drivers with different phase-cut dimmers

Schneider	40600.RL	leading	5-9	3	1	8.4 %	
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Explanation:

1. Dimmer types: leading-edge, trailing-edge, universal
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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 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 250 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	2	2	1	3.3 %	
Busch	2247U	leading	1-4	3	1	9.2 %	
Busch Jaeger	6523U	leading	1-4	2	1	0.1 %	
CLIPSAL	32E450LM	leading	2-16	2	1	2.8 %	
CLIPSAL	32E450UDM	universal	1-16	1	1	3.1 %	
CLIPSAL	32E450TM	trailing	1-16	1	1	2.1 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-15	2	1	0 %	
DIGINET	MEDM	leading	1-15	2	1	0 %	
ELKO	315GLE	trailing	1-2	1	1	1.1 %	
ELKO	316GLED	trailing	1-11	1	1	16.6 %	
Finder	15.91.8	leading	1-2	2	1	1.3 %	
GIRA	30200	leading	2-4	3	1	2.4 %	
GIRA	117600/I01	trailing	1-15	1	1	6.4 %	
Hager	EVN011	universal	1-11	1	1	0.7 %	
Hager	EVN012	universal	1-11	1	1	0.8 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	2-14	3	1	0.1 %	
Niko	325	universal	1-12	3	1	0.1 %	
Schneider	40300 RC	trailing	1-11	1	-	5.1 %	

LED Drivers with different phase-cut dimmers

Schneider	40600.RL	leading	2-9	3	1	3.5 %	
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LED Drivers with different phase-cut dimmers

LCA 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 350 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	1-3	2	1	6.2 %	
Busch	2247U	leading	1-4	3	1	6.5 %	
Busch Jaeger	6523U	leading	1-4	1	1	0.6 %	
CLIPSAL	32E450LM	leading	5-9	2	1	5.4 %	
CLIPSAL	32E450UDM	universal	1-17	1	1	6.3 %	
CLIPSAL	32E450TM	trailing	1-17	1	1	5.3 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-16	2	1	0 %	
DIGINET	MEDM	leading	1-16	2	1	0 %	
ELKO	315GLE	trailing	1-4	1	1	1.6 %	
ELKO	316GLED	trailing	1-12	1	1	15.1 %	
Finder	15.91.8	leading	1-2	2	1	6.1 %	
GIRA	30200	leading	-	3	5	6.1 %	Not useful
GIRA	117600/I01	trailing	2-16	1	1	9.1 %	
Hager	EVN011	universal	1-12	1	1	3.1 %	
Hager	EVN012	universal	1-12	1	1	3.0 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	1-15	3	5	0.0 %	
Niko	325	universal	1-13	2	1	0.0 %	
Schneider	40300 RC	trailing	1-12	1	1	8.0 %	

LED Drivers with different phase-cut dimmers

Schneider	40600.RL	leading	2-5	3	1	7.5 %	
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Explanation:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Noise evaluation: 1 (very little noise) -> 4 (strong noise).
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LED Drivers with different phase-cut dimmers

LCA 15W 180-350mA flexC pc SR ADV (87500627) - Values for dimmers at 350 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	1-10	2	1	6.2 %	
Busch	2247U	leading	1-13	3	1	18.7 %	
Busch Jaeger	6523U	leading	1-3	2	-	0.0 %	
CLIPSAL	32E450LM	leading	1-11	2	1	2.7 %	
CLIPSAL	32E450UDM	universal	1-11	1	1	2.5 %	
CLIPSAL	32E450TM	trailing	1-11	1	1	1.9 %	
CLIPSAL	L5508D1A	universal	-	4	4	0 %	Not useful
DIGINET	MMDM/PB	leading	1-12	2	1	0 %	
DIGINET	MEDM	leading	1-12	2	1	0 %	
ELKO	315GLE	trailing	1-4	1	1	0.6 %	
ELKO	316GLED	trailing	1-8	1	1	13.3 %	
Finder	15.91.8	leading	1-2	2	1	1.7 %	
GIRA	30200	leading	1-4	3	1	2.2 %	
GIRA	117600/I01	trailing	1-11	1	1	4.5 %	
Hager	EVN011	universal	1-8	1	1	0.7 %	
Hager	EVN012	universal	1-8	1	1	0.7 %	
Legrand	78405	leading	-	3	5	N/A	Not useful
Legrand	78401	trailing	2-10	3	1	0.0 %	
Niko	325	universal	1-8	2	1	0.0 %	
Schneider	40300 RC	trailing	1-8	1	1	3.9 %	

LED Drivers with different phase-cut dimmers

Schneider	40600.RL	leading	1-9	3	1	4.1 %	
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