

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

LCBI 14W 700mA BASIC PH-CUT SR ADV (87500387) – 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
Busch-Jaeger UP, LED, 2-100 W	6523 U-102	universal	1-11	tbd. ⁵	1	
Busch-Jaeger UP, R, 60-600 W	2250 U	leading-edge	1-15	tbd.	1	
Busch-Jaeger UP, RL, 20-500 W	2247U	leading-edge	1-13	tbd.	1	
Berker 283010	283010	leading-edge	1-10	tbd.	1	
Clipsal 32E 450 TM	32E450TM	trailing-edge	1-11	tbd.	1	
Clipsal 32E 450 UDM	32E450UDM	universal	1-11	tbd.	1	
Clipsal 32E 450 LM	32E450LM	leading-edge	1-11	tbd.	1	
EHMANN LICHTREGLER T46S	LICHTREGLER T46S	trailing-edge	1-8	tbd.	1	Poor dim depth
ELKO 316 GLED	316GLED	trailing-edge	1-8	tbd.	1	
ELKO 315 GLE-2Pole	315GLE-2Pole	trailing-edge	1-8	tbd.	1	
ELKO 315 GLE	315GLE	trailing-edge	1-8	tbd.	1	
E-LITE 500W	U116	trailing-edge	1-13	tbd.	1	
Feller 40300 RC	40300 RC	trailing-edge	1-7	tbd.	1	Poor dim depth
Feller 40600 RL	40600 RL	leading-edge	1-15	tbd.	1	
Feller 40200.LED.F.61	40200.LED.F.61	universal	1-5	tbd.	1	Not usable
Finder 15.91.8	15.91.8	leading-edge	1-1	tbd.	1	
GIRA 0302 00/I01	0302 00/I01	leading-edge	1-15	tbd.	1	

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GIRA 2262 00/I01	2262 00/I01	leading-edge	1-2	tbd.	1	
GIRA 1182 00/I01	1182 00/I01	leading-edge	1-9	tbd.	1	Poor dim depth
GIRA 1184 00/I01	1184 00/I01	leading-edge	1-10	tbd.	1	
GIRA 117600/I01	117600/I01	trailing-edge	1-11	tbd.	1	Poor dim depth
Hager EVN011	EVN011	universal	1-7	tbd.	1	
Hager EVN 012	EVN 012	universal	1-7	tbd.	1	
JUNG 225 TDE	225 TDE	trailing-edge	1-13	tbd.	1	Poor dim depth
JUNG 225NVDE	225NVDE	leading-edge	1-2	tbd.	2	
JUNG 266 GDE	266 GDE	leading-edge	1-13	tbd.	1	
JUNG 254 UDIE 1	254 UDIE 1	universal	1-15	tbd.	1	Poor dim depth
Legrand 078401	78401	universal	1-10	tbd.	1	
Legrand 2M 2-L 600W	78405	universal	1-10	tbd.	2	
Legrand HPM CAT400T	HPM CAT400T	trailing-edge	1-10	tbd.	1	
Legrand CAT403L	CAT403L	leading-edge	1-10	tbd.	2	Not usable
Niko 325	310-01900	universal	1-8	tbd.	1	
SAL SDA450	SDA450	trailing-edge	1-11	tbd.	1	
SAL SDD350	SDD350	trailing-edge	1-9	tbd.	1	
Siemens 5TCB 257	5TCB 257	leading-edge	1-13	tbd.	2	
Tridonic DSI - PCD/S	22 154 333	universal	1-25	-	-	no dimming function with one LCBI

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Tridonic DALI - PCD/S	22 154 332	universal	1-25	-	-	no dimming function with one LCBI
Tridonic DALI - PCD 300 one4all	86 458 303	universal	1-7	3	1	no proper switchDIM function
Tridonic DALI - PCD 1-300 one4all	28 000 441	universal	1-7	3	1	no proper switchDIM function
Tridonic DSI - PCD/S	22 154 333	universal	2-25	3	1	no proper turn on
Tridonic DALI - PCD/S	22 154 332	universal	2-25	2	1	no proper turn on
Tridonic DALI - PCD 300 one4all	86 458 303	universal	2-7	3	1	-
Tridonic DALI - PCD 1-300 one4all	28 000 441	universal	2-7	3	1	sometimes problems with DALI

Explanation:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Noise rating: 1 (very little noise) -> 4 (strong noise).
Noise rating was only carried out for full load and for some products. Values for minimum load are less critical. For reference refer to full load.
3. Flicker rating: 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.
5. tbd. = to be defined, no rating results available yet

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Product name	Article number	Dimmer type ¹	LED Drivers per dimmer	Flicker rating ²	Other issues ³
Busch-Jaeger UP, LED, 2-100 W	6523 U-102	universal	1-22	2	
Busch-Jaeger UP, R, 60-600 W	2250 U	leading-edge	1-31	1	
Busch-Jaeger UP, RL, 20-500 W	2247U	leading-edge	1-26	1	Poor dim depth
Berker 283010	283010	leading-edge	1-21	1	
Clipsal 32E 450 TM	32E450TM	trailing-edge	1-23	1	
Clipsal 32E 450 UDM	32E450UDM	universal	1-23	1	Poor dim depth
Clipsal 32E 450 LM	32E450LM	leading-edge	1-23	1	
EHMANN LICHTREGLER T46S	LICHTREGLER T46S	trailing-edge	1-16	1	Poor dim depth
ELKO 316 GLED	316GLED	trailing-edge	1-16	1	Poor dim depth
ELKO 315 GLE-2Pole	315GLE-2Pole	trailing-edge	1-16	1	
ELKO 315 GLE	315GLE	trailing-edge	1-16	1	
E-LITE 500W	U116	trailing-edge	1-26	1	Poor dim depth
Feller 40300 RC	40300 RC	trailing-edge	1-15	1	Poor dim depth
Feller 40600 RL	40600 RL	leading-edge	1-31	2	Poor dim depth
Feller 40200.LED.F.61	40200.LED.F.61	universal	1-10	1	Poor dim depth
Finder 15.91.8	15.91.8	leading-edge	1-2	1	
GIRA 0302 00/I01	0302 00/I01	leading-edge	1-31	1	

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GIRA 2262 00/I01	2262 00/I01	leading-edge	1-5	1	
GIRA 1182 00/I01	1182 00/I01	leading-edge	1-18	1	Poor dim depth
GIRA 1184 00/I01	1184 00/I01	leading-edge	1-21	1	
GIRA 117600/I01	117600/I01	trailing-edge	1-22	1	Poor dim depth
Hager EVN011	EVN011	universal	1-15	1	Poor dim depth
Hager EVN 012	EVN 012	universal	1-15	1	Poor dim depth
JUNG 225 TDE	225 TDE	trailing-edge	1-27	1	Poor dim depth
JUNG 225NVDE	225NVDE	leading-edge	1-5	3	Not usable
JUNG 266 GDE	266 GDE	leading-edge	1-27	1	
JUNG 254 UDIE 1	254 UDIE 1	universal	1-31	1	Poor dim depth
Legrand 078401	78401	universal	1-21	1	
Legrand 2M 2-L 600W	78405	universal	1-21	3	Not usable
Legrand HPM CAT400T	HPM CAT400T	trailing-edge	1-21	1	
Legrand CAT403L	CAT403L	leading-edge	1-21	1	
Niko 325	310-01900	universal	1-17	2	
SAL SDA450	SDA450	trailing-edge	1-23	1	Poor dim depth
SAL SDD350	SDD350	trailing-edge	1-18	2	
Siemens 5TCB 257	5TCB 257	leading-edge	1-26	3	Not usable

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Explanation:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Flicker rating: 1 (no flicker) -> 4 (strong flicker)
3. Other issues: description of the issue.
ZSL-UP is an additional circuit that can improve the dimming behavior of specific lamps.