

Professional LED lamps MV range

Recommended dimmer compatibility list for Mains Voltage Lamps



KEY

Table with 2 columns: Category (x-y, N.A., T.B.D.) and Description (Excellent dimming, Dimming performance, Unexpected performance, etc.)

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Main compatibility table with columns: Brand, Type, Load, Dimming Performance, Dimming Range, Glowing. Includes sub-headers for LED spot and various lamp models like Master LEDspot VLE.

Note: #1) Unexpected behaviour can occur outside the range of specified number of lamps. #2) Occupancy sensors can act like dimmers. #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads. #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30% #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition. #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers



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Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



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x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

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				LED spot								
				Master LEDspot MV 13W-100W PAR38			CorePro LEDspot MV 5W-60W R50			CorePro LEDspot MV 5.4-60W R63		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker INSTA	286710	[RC]	20 – 360 W - Turn	1-5	97%-3%		2-10	90%-20%		2-15	97%-20%	
Berker INSTA	283010	[R]	60 – 400 W - Turn	5	96%-3%		2-10	94%-8%				
Bticino	L4407		60 – 250 W	1-3	59%-3%			N.A.	N.A.			
Busch Jaeger ABB	2200 U - 503	[R]	60 – 400 W - Turn		N.A.	N.A.	2-10	94%-16%	< 2	2-15	97%-36%	< 16
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn	5	99%-3%		2-10	92%-3%		2-20	98%-3%	
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn	5	98%-3%		2-10	92%-3%		2-20	98%-3%	
Busch Jaeger ABB	6513 U - 102	[RC]	40 – 420 W - Turn	1-5	99%-3%		2-10	96%-20%		2-15	98%-21%	
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA-LED - Turn		N.A.	N.A.	2-10	92%-3%		2-20	95%-3%	
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-5	96%-3%		1-16	95%-20%				
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-5	98%-3%		2-10	88%-20%		2-10	99%-26%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W	1-5	98%-3%			N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400W 3 - wire Push Module		N.A.	N.A.	1-16	97%-12%	<17			
Feller Schneider	40200 (SBD200LED CCTCHI0601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	98%-3%		2-10	88%-20%		2-10	99%-26%	
Feller Schneider	40300 (SBD315)	[RLC]	300W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
Feller Schneider	40420 (SBD420)	[RLC]	420W	1-5	98%-3%			N.A.	N.A.		N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 – 420W		N.A.	N.A.	1-16	94%-30%				
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)		N.A.	N.A.	2-10	92%-8%		2-19	95%-7%	
Hager	EVN 011	[RC]	300VA		N.A.	N.A.	1-12	97%-14%	< 13			
Hager	EVN 012	[RC]	300W		N.A.	N.A.	1-12	96%-15%	< 13			
Hager	EVN 004	[RL]	500VA		N.A.	N.A.	1-16	97%-15%	< 3			
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-5	97%-3%		2-10	92%-24%		2-20	98%-25%	
Jung	127ILEDDE	[LED]	3 – 100W - Push (3wire)		N.A.	N.A.	2-10	92%-36%		2-20	96%-46%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W		N.A.	N.A.	1-5	79%-31%				
Klik aan Klik uit	ACM 300		300W - 3 - wire Push LED Dimmer		N.A.	N.A.	1-12	87%-14%				
Legrand	774161	[RL]	40 – 400 W - Turn	5	97%-3%		3-10	92%-8%	< 4		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W		N.A.	N.A.	1-16	95%-14%		3-10	97%-15%	
Legrand	67081	[RL]	40 – 400 W - Turn		N.A.	N.A.	3-10	96%-16%				
Legrand	67082	[RL]	40 – 600 W - Turn		N.A.	N.A.		N.A.	N.A.	3-20	97%-14%	
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.	2-16	90%-12%				
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)		N.A.	N.A.	2-10	88%-3%	< 5	2-15	97%-3%	
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)	1-5	96%-3%		2-10	96%-3%		2-11	99%-3%	
Legrand	L4402N	[R]	60-500W		N.A.	N.A.	2-16	95%-20%				
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	98%-3%		2-10	88%-20%		2-10	99%-26%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-5	98%-3%			N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R]	65 – 450 W - Turn		N.A.	N.A.	2-10	80%-14%		2-17	87%-16%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn		N.A.	N.A.	2-10	86%-14%		2-19	93%-16%	
MK - Electric	K4501 WHILV	[RLC]	180W		N.A.	N.A.	1-9	90%-17%				
MK - Electric	K4500 WHILV	[RLC]	400W		N.A.	N.A.	1-16	89%-18%				
NIKO	310-0280X	[LED]	2 – 100 VA		N.A.	N.A.	1-4	86%-6%				
PEHA	431HAN	[RL]	6 – 120W [LED] 6-60W		N.A.	N.A.	1-5	89%-7%				
Philips	UID8670	[LED]	2 – 100 VA - LED - Push (3wire)		N.A.	N.A.	2-10	92%-3%		2-20	95%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)	1-5	98%-3%		2-10	88%-20%		2-10	99%-26%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-5	99%-3%		2-10	88%-3%		2-10	97%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-5	90%-3%		1-14	88%-27%				
VADSBO	DRS 315	[RC]	50 – 315W		N.A.	N.A.	2-13	95%-19%	< 14			
VADSBO	DU 250	[RC]	20 – 250W		N.A.	N.A.	1-10	85%-9%	< 11			
Varilight	HQ3W	[R]	60 – 400W		N.A.	N.A.	2-10	92%-6%		2-15	99%-4%	
Vimar	20148	[RL]	500W		N.A.	N.A.	3-10	92%-8%	< 11	2-19	96%-13%	< 4
Vimar	14153	[R]			N.A.	N.A.	1-16	99%-6%				
Vimar	20160	[RC]			N.A.	N.A.	2-16	94%-11%	< 17			
Vimar	20162	[RL]	40 – 300W	1-5	98%-3%		2-10	88%-8%	< 11	2-11	97%-9%	< 5
Dynalite	DDLE801		(100W per channel)		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	2-19	99%-3%	
Dynalite	DDMC-GRMSPLUS		(460W per channel)	1-5	99%-3%		T.B.D.	T.B.D.	T.B.D.	2-17	97%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
 - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
 - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
 - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
 - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
 - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
 - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
 - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
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				LED special					
				LED capsule G9 2.5W - 25W			Corepro R7s 14W - 100W		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker INSTA	286710	[RC]	20 - 360 W - Turn	3-20	96%-27%		1	89%-8%	
Berker INSTA	283010	[R]	60 - 400 W - Turn	3-20	86%-23%		1	94%-3%	
Bticino	L4407		60 - 250 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Busch Jaeger ABB	2200 U - 503	[R]	60 - 400 W - Turn	3-20	85%-33%		1	91%-23%	
Busch Jaeger ABB	2247 U	[RL]	20 - 500 W - Turn	3-20	83%-9%		1	93%-3%	
Busch Jaeger ABB	2250 U	[R]	60 - 600 W - Turn	3-20	87%-6%		1	96%-3%	
Busch Jaeger ABB	6513 U - 102	[RC]	40 - 420 W - Turn	3-20	98%-24%		1	93%-7%	
Busch Jaeger ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	3-20	92%-3%		1	88%-3%	
Busch Jaeger ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	3-20	97%-23%	< 7	T.B.D.	T.B.D.	T.B.D.
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	3-20	96%-30%		1	88%-10%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	3-20	95%-9%		1	89%-3%	
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.	1	93%-3%	
Eltako	EVD61NPN-UC		400W 3 - wire Push Module	3-20	99%-15%		T.B.D.	T.B.D.	T.B.D.
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	3-20	96%-30%		1	88%-10%	
Feller Schneider	40300 (SBD315)	[RLC]	300W	3-20	95%-9%		1	89%-3%	
Feller Schneider	40420 (SBD420)	[RLC]	420W		N.A.	N.A.	1	93%-3%	
GIRA	1176-00/01	[RLC]	50 - 420W	3-20	96%-39%	< 12	T.B.D.	T.B.D.	T.B.D.
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	3-18	91%-15%		1	89%-4%	
Hager	EVN 011	[RC]	300VA	3-20	98%-18%	< 14	T.B.D.	T.B.D.	T.B.D.
Hager	EVN 012	[RC]	300W	3-20	99%-28%	< 14	T.B.D.	T.B.D.	T.B.D.
Hager	EVN 004	[RL]	500VA	3-20	99%-28%	< 15	T.B.D.	T.B.D.	T.B.D.
Jung	225 TDE	[RC]	20 - 525 W - Turn	3-20	96%-33%		1	90%-10%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	3-20	94%-3%		1	90%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	3-10	86%-3%	< 11	T.B.D.	T.B.D.	T.B.D.
Klik aan Klik uit	ACM 300		300W - 3 - wire Push LED Dimmer	3-20	33%-3%	< 10	T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 - 400 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 - 500W	3-20	97%-3%	< 13	T.B.D.	T.B.D.	T.B.D.
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 - 400W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	3-20	97%-23%			N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	3-20	99%-4%			N.A.	N.A.
Legrand	L4402N	[R]	60-500W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	3-20	96%-30%		1	88%-10%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-20	95%-9%		1	89%-3%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	T.B.D.	T.B.D.	T.B.D.	1	93%-3%	
MK - Electric	K1535	[R]	65 - 450 W - Turn	3-20	72%-19%		1	82%-10%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	3-10	82%-17%		1	88%-6%	
MK - Electric	K4501 WHILV	[RLC]	180W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
MK - Electric	K4500 WHILV	[RLC]	400W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
NIKO	310-0280X	[LED]	2 - 100 VA	3-9	98%-8%		T.B.D.	T.B.D.	T.B.D.
PEHA	431HAN	[RL]	6 - 120W [LED] 6-60W	3-10	76%-4%		T.B.D.	T.B.D.	T.B.D.
Philips	UID8670	[LED]	2 - 100 VA - LED - Push (3wire)	3-20	92%-3%		1	88%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-20	95%-9%		1	89%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	3-20	95%-9%		1	89%-3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA - Turn Universal (2wire)	3-20	96%-30%		1	88%-10%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-20	95%-9%		1	89%-3%	
VADSBO	ED 350	[RC]	50 - 350W	5-20	93%-34%		T.B.D.	T.B.D.	T.B.D.
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
VADSBO	DU 250	[RC]	20 - 250W	3-20	92%-14%	<21	T.B.D.	T.B.D.	T.B.D.
Varilight	HQ3W	[R]	60 - 400W	3-20	85%-14%		1	93%-3%	
Vimar	20148	[RL]	500W		N.A.	N.A.	1	94%-4%	
Vimar	14153	[R]		3-20	98%-3%	<10	T.B.D.	T.B.D.	T.B.D.
Vimar	20160	[RC]			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Vimar	20162	[RL]	40 - 300W	3-20	96%-18%	<21	1	90%-5%	
Dynalite	DDLE801		(100W per channel)	3-20	97%-3%		1	88%-3%	
Dynalite	DDMC-GRMSPLUS		(460W per channel)	3-20	97%-3%		1	91%-3%	

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